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This census of a week's educational UHF-VHF broadcasting is accompanied by a survey of ITFS (2500 MHz) and closed-circuit television programing. Compared to 1966, there was proportionately more math, less foreign language on UHF-VHF. The trend toward less local production and the trend toward more weekend broadcasting continued: in 1962 78% of instructional television was locally produced, but only 35% was in 1968. School-owned stations produced more than 40% of their programing locally, while state-owned stations received most of theirs from state networks. Both college and community-owned stations depended more on NET (National Educational Television) than on any other source. The 8,534 hours broadcast by the 152 UHF-VHF stations averaged out to 56.1 hours per station per week. Adding in the estimated total closed-circuit hours (13,800) and the estimated total ITFS hours (1,080) produced a grand total of about 23,000 ETV hours in the U.S. that week. (Business and industrial training use were not included in the closed-circuit estimate.) Detailed tables and graphs present the data collected, and appendices discuss aspects of programing and the methodology of the survey. One appendix, published and bound separately, presents the data from the individual stations. (RP)

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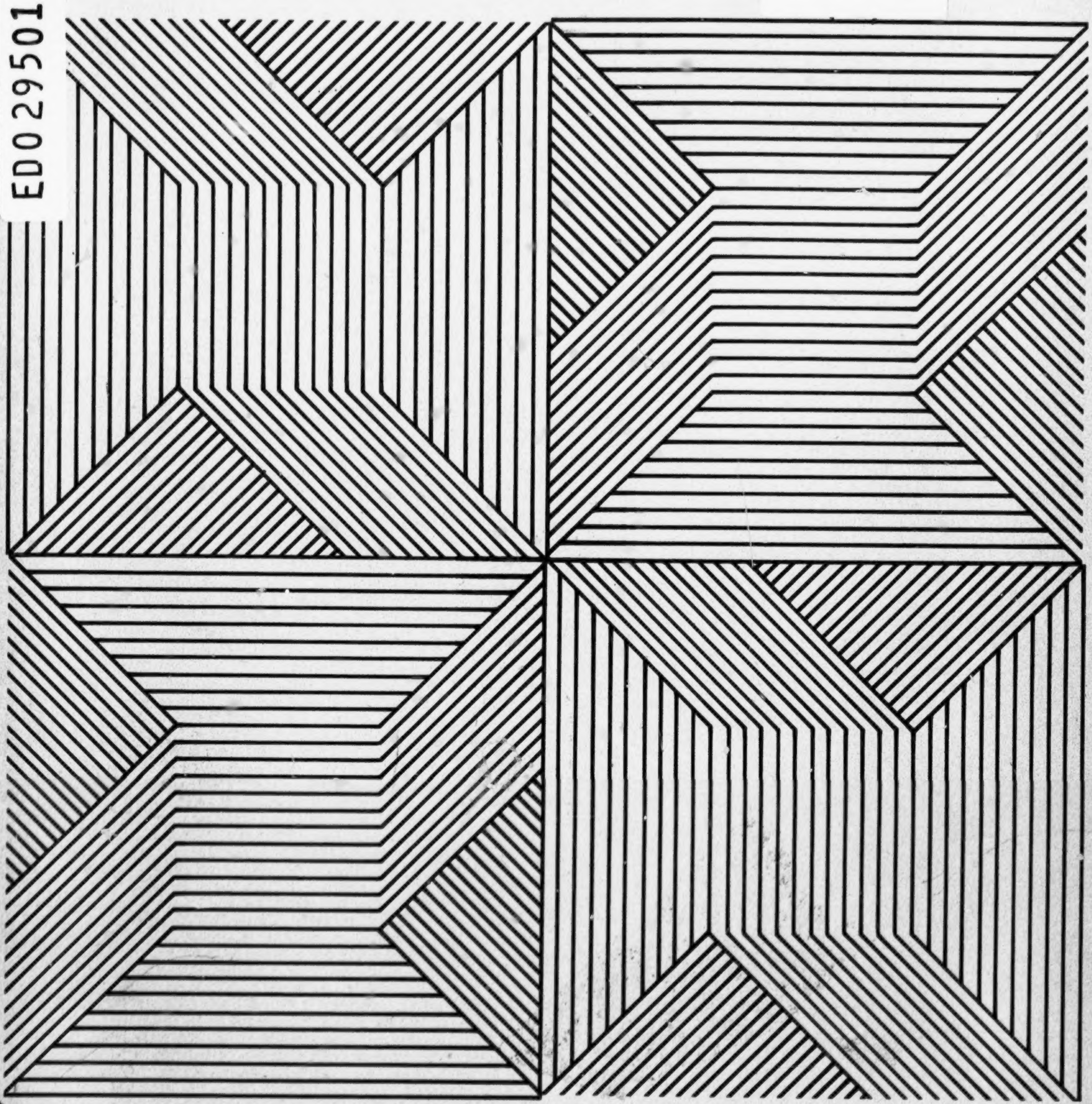

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One Week of Educational Television

May 6-12, 1968

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ONE WEEK OF EDUCATIONAL TELEVISION

Number Five
May 6-12, 1968

UHF-VHF, CLOSED-CIRCUIT
AND ITFS (2500 MHz) ACTIVITY

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Institute for Communication Research
Stanford University

Sponsored by National Educational Television
and The National Instructional Television Center

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ONE WEEK OF EDUCATIONAL TELEVISION NO. 5—1968

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FOREWORD

One Week No. 5 owes a great deal to a great many people for a great deal of assistance. In particular, Robert B. Hudson of NET and Edwin G. Cohen, Edward J. Pfister and Saul Rockman of NIT—whose organizations sponsored the project—gave valuable advice on many specific phases.

Wilbur Schramm helped arrange the whole study, and then urged straightforward presentation of the results.

Colin Mick, research assistant at the Institute for Communication Research, was responsible for programming the extensive data processing.

Violet Lofgren supervised typing the drafts and preparing the figures in preliminary format, with help from Joann George.

Susan Barozzi, Beverly Brown and Kathy Brown assisted with various facets of data analysis.

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1. ETV QUESTIONS AND ANSWERS

(This section gives something of an overview of One Week No. 5, *at the risk of oversimplifying the findings. Much more detailed answers are provided in the body of the report, which is organized in the same order as these questions and answers.)*

ETV IN 1968

How much UHF-VHF broadcasting was there?

153 ETV stations were on the air, 38 more than were reported in the 1966 survey. The 8,534 hours broadcast by 152 stations averaged out to 56.1 hours per station for the week.

How much ETV broadcasting of all kinds was there?

Adding the estimated closed-circuit hours (13,800) and the estimated ITFS hours (1,080) to the UHF-VHF total produced a grand total of about 23,000 hours. (Business and industrial training use were not included in the closed-circuit estimate.)

UHF-VHF STATION OPERATION AND PROGRAMMING

Who owns the UHF-VHF stations?

44 were college-owned, 41 were community-owned, and 40 were state-owned. Others were owned by schools, municipal governments, and combinations of the above.

Most of the 38 new stations were either state or college-owned.

How much broadcasting was locally produced?

In 1968 only 23.4% of all UHF-VHF programming was locally produced. In 1962 52% of such programming was being locally produced.

How much broadcasting was repeated?

In 1968 31.7% of all UHF-VHF programming was repeat broadcasting regardless of source or type of programs.

How much weekend broadcasting was there?

Weekend broadcasting continued to increase. 8% of total program hours were on Saturday or Sunday, and 67% of the UHF-VHF stations did at least some weekend broadcasting.

How much network affiliation was there?

All but 15% of the UHF-VHF stations belonged to at least one regional or state network.

How much UHF-VHF broadcasting was done in color?

4.6% of the total broadcast hours were in color. Almost 8% of the general programming hours were in color, but less than 1% of the ITV hours were in color. Of the stations which originated programming, 16% could produce color locally and 66% could transmit in color.

How much general programming was there?

55% of the total UHF-VHF broadcast hours were devoted to general programming, with all but eight stations doing at least some general programming.

The 4,671 hours in 1968 were up from 3,248 in 1966.

What kinds of general programming were broadcast?

Public affairs was the category with the most hours of UHF-VHF programming. Other large categories were children's and cultural programming.

Where did the stations obtain their general programming?

NET was again the largest source of UHF-VHF general programming. A larger proportion of programming was obtained from state and regional networks than in previous years. Local production again decreased. Local production has decreased from 29% of general program hours in 1962 to 13.4% in 1968.

In what form was the general programming obtained?

Video tape from NET was the most frequent form, and almost two-thirds of all general programming was obtained on video tape from one source or another. 8.6% of the general programming was live local production.

How much general programming was repeated?

About 24% of all general program hours were repeat broadcasts.

How much ITV was there?

45% of the total UHF-VHF broadcast hours were ITV, with all but five of the stations broadcasting at least some programs specifically for classroom use and/or academic credit.

The 3,863 hours in 1968 were up from 2,440 in 1966.

What ITV subjects were broadcast?

More hours were devoted to science than any other subjects. Social science, math and language arts were other large categories. Compared to 1966, there was more math, less foreign language on UHF-VHF.

Where did the stations obtain their ITV programming?

In previous years the largest single source of ITV programming has been local production. In 1968, state networks which distribute programming from national agencies as well as their own became the largest single source of ITV materials. In 1968 state networks provided almost 40% of the programming. Local ITV production continued to decrease. In 1962 almost 78% of ITV programming was locally produced. In 1968, 35% was locally produced.

In what form were the ITV programs obtained?

Almost 70% of the ITV hours were obtained on video tape.

How much ITV was repeated?

About 41% of all ITV hours were repeat broadcasts.

How long were the average lessons?

From an average of 17 minutes in kindergarten-3rd Grade to 36 minutes in college.

From an average of 17 minutes for physical education to 28 minutes for humanities.

What did it cost to produce a 30-minute ITV program locally?

The median estimate was $455.

What was the average annual ITV programming budget?

The mean was $153,019, with community-owned stations reporting larger budgets than other stations.

THE TYPICAL STATION

How did stations with different kinds of ownership differ in programming?

Community-owned stations broadcast the most hours per week, school-owned stations the least.

College-owned stations devoted the greatest share of their broadcast hours to general programming; state-owned devoted the least.

School-owned stations produced more than 40% of their programming locally, while state-owned stations received most of theirs from state networks. Both college and community-owned stations depended more on NET than on any other source.

ITFS SYSTEM OPERATION AND PROGRAMMING

How much ITFS programming was there?

Adding in the programming done on different channels of the same system produced an average of 28.4 hours per week per system. It was estimated that the total ITFS broadcasting in the country that week was about a thousand hours (see Section 3, page 9).

How much ITFS broadcasting was in color?

Five of the 24 systems surveyed could transmit color, and 5% of the total hours were in color. No system was capable of local color production.

For what age levels was ITFS broadcasting designed?

More hours were broadcast for the junior high level (grades 7-9) than for any other.

Where did ITFS systems obtain their programming?

More than half the broadcast hours were produced locally.

In what form were the ITFS programs obtained?

More than 70% of the hours were on video tape.

CLOSED-CIRCUIT SYSTEM OPERATION AND PROGRAMMING

How much closed-circuit programming was there?

Adding in the programming done on different channels of the same system produced an average of 22.9 hours per week per system. It was estimated that the total educational closed-circuit programming in the country that week was in the neighborhood of 13,800 hours (see Section 3, page 9).

How much closed-circuit programming was in color?

Nine of the 44 CCTV systems surveyed could transmit color, but less than 1% of the total hours were in color. Two systems were capable of local production in color.

For what age levels was closed-circuit programming designed?

The majority of closed-circuit broadcast hours were designed for college students.

Where did the closed-circuit operations obtain their programming?

More than two-thirds of the program hours were produced locally.

In what form were the closed-circuit programs obtained?

The great majority, as was the case in ITFS broadcasting, originated from video tape.

UHF-VHF, ITFS AND CLOSED-CIRCUIT PROGRAMMING COMPARED

How did the three kinds of programming differ?

There was more social science on closed-circuit systems, more math on the ITV of UHF-VHF stations, and more health and safety on ITFS.

The UHF-VHF stations depended heavily on state networks as a source of ITV programming. Both ITFS and closed-circuit systems produced more than half their programming locally.

2. INTRODUCTION

This fifth *One Week of Educational Television* has points in common with the previous four, but also significant differences. Once again, all UHF-VHF educational broadcasting for one week was surveyed so that both the present state of affairs and trends could be described. The week chosen was May 6-12, 1968.

This *One Week of Educational Television* was sponsored by National Educational Television and the National Instructional Television Center. The survey and subsequent data processing was an activity of the ERIC Clearinghouse on Educational Media and Technology, located in the Institute for Communication Research at Stanford University.

For the first time educational broadcasting activities in the ITFS (2500 MHz) and closed-circuit areas were surveyed. Also for the first time, all programs were classified either as General Programming or Instructional Television (ITV). All programs intended for in-class use or for credit viewing were considered ITV.

This year's survey sought more information about each program than any of the previous surveys, so filling out the forms was a sizable task for station personnel. Their willingness to cooperate made the survey possible.

Like previous *One Week* surveys, this one sought quantitative data on actual programming practices. The goal was to describe "What Is" or at least "What Was" in May, 1968, since data processing takes time. The future of educational television probably is of great concern to everyone who has read this far, but speculating about it had to be beyond the scope of *One Week*. The hope, of course, is that this report on "What Is" will be of value to those dedicated to pursuing "What Could Be" and "What Should Be."

3. ETV IN 1968—HOW MUCH BROADCASTING WAS THERE?

During the week of May 6-12, 1968, 153 UHF-VHF educational television stations were known to be on the air. This was 38 more than the number reported broadcasting in the 1966 *One Week of Educational Television.*

All but one of the 153 UHF-VHF stations chose to participate in the survey. The 152 stations from whom reports were received broadcast a total of 8,534 hours during the 1968 survey week, for an average of 56.1 hours per station.

UHF-VHF Broadcasting, 1961-1968

	1961	1962	1964	1966	1968
Number of UHF-VHF stations	56	62	88	115	153**
Total weekly UHF-VHF broadcast hours	2186	2596	3715	5688	8534
Average hours broadcast per week per UHF-VHF station	39.0	41.9	42.3	49.5	56.1

Fig. 3.1

While the survey of UHF-VHF broadcasting was almost a perfect census, information on 2500 MHz (ITFS) broadcasting was received from only 24 of the 38 operations believed to exist, and information on closed-circuit educational television was received from only 44 of the random sample of 88 such operations. These return rates probably testify to the less formal nature of many ITFS and closed-circuit operations.

Multi-channel operation makes comparisons difficult, but—adding in all the separate channels—the responding ITFS operations averaged 28.4 hours of programming during the week, while the responding closed-circuit operations averaged 22.9 hours of programming. The total ITFS programming reported was 681.0 hours, and the total closed-circuit programming reported was 985.9 hours. Projecting from these totals for the samples, and assuming that the responding systems were representative of the others, the total ITFS programming in the United States that week would be somewhere in the neighborhood of 1,080 hours, and the total closed-circuit programming in the neighborhood of 13,800 hours.

The estimates of average ITFS and closed-circuit programming probably are on the high side; it would seem reasonable to expect the more-established operations both to broadcast more and to be more likely to respond to a survey such as *One Week.* On the other hand, the total ITFS and closed-circuit programming must be larger than estimated above, because of the many operations initiated recently.

For the most part, ITFS and closed-circuit programming are treated in separate sections of this report, after the sections devoted to UHF-VHF programming.

4. UHF-VHF STATION OPERATION AND PROGRAMMING

A. The General Pattern of UHF-VHF Station Operation

What are the new stations like?

Thirty-four of the stations reported that their transmitting began after April 15, 1966, the date of the previous *One Week* survey. Of these, 7 were VHF and 27 were UHF stations. The following figure shows how ownership of the new stations was divided. ("Other," in this and in the next figure, indicates a form of joint ownership. For instance, many stations in the "other" category are owned by a state and a college.)

Ownership of New UHF-VHF Stations

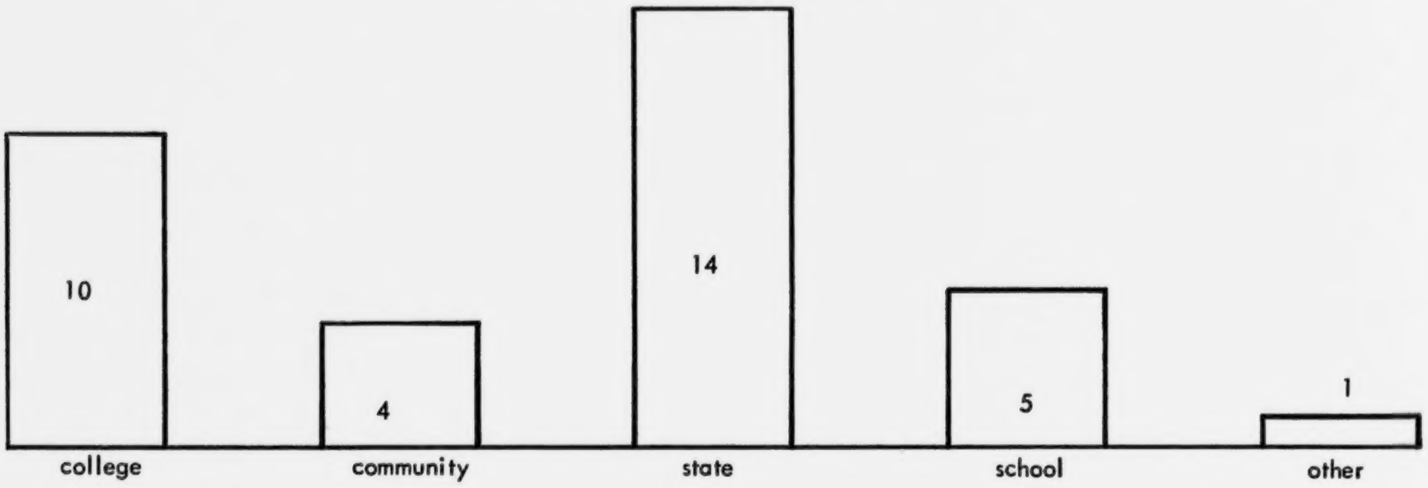


Fig. 4.1

How did the programming of the new stations differ?

Not very much, except for the number of hours broadcast per week. The 34 new stations averaged 46.7 broadcast hours per week, compared to the average of 56.1 hours for all the UHF-VHF stations. The 46.7 hour average week of the new stations was 1.7 hours longer than the average week of the 28 stations reported as new in 1966.

The new stations averaged 53% general programming, 47% ITV, while the split among all 152 stations was 55%/45%. A comparison of program hours devoted to different subject categories showed no significant differences between the old and the new stations, either in general programming or ITV.

Who owns the stations, old and new combined?

Ownership of the 153 stations is shown below:

Ownership of All Stations

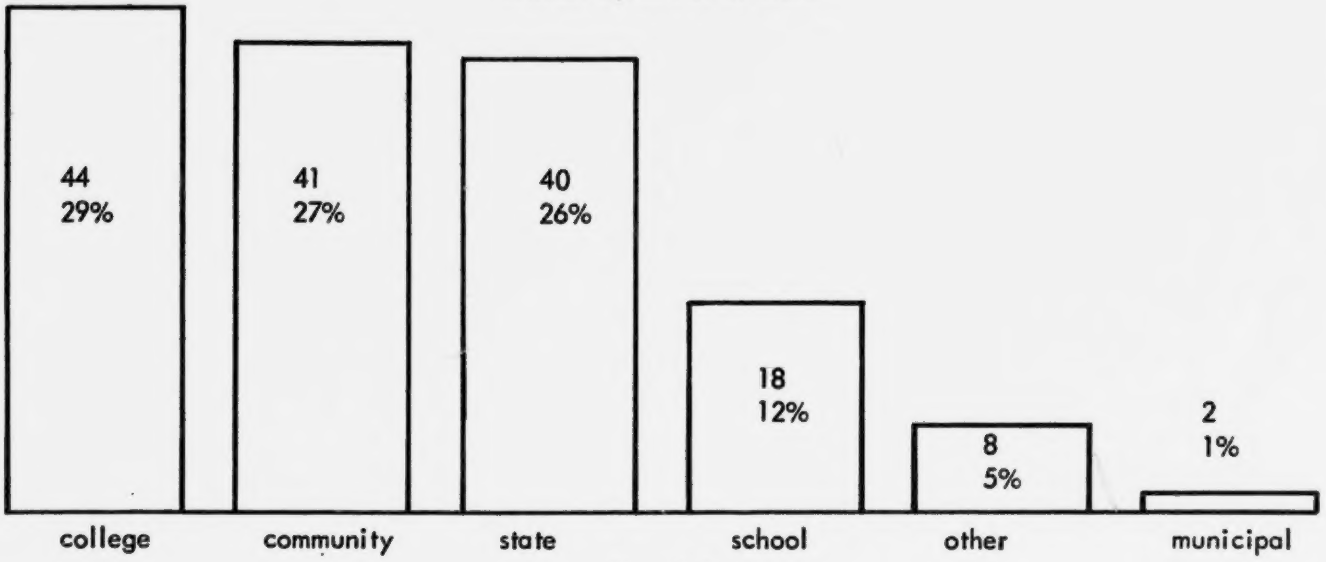


Fig. 4.2

How much weekend broadcasting was there?

Of the total hours broadcast during the survey week, 8.4% (717 hours) were broadcast on either Saturday or Sunday. Saturday broadcasting amounted to 2.4%; Sunday broadcasting to 6%. If you consider each existing network as a single operation, there were only 116 "originating stations" and, from those, 9.8% was on weekends.

In 1968, 67% of the 152 stations did some weekend broadcasting. A six-day broadcasting schedule was reported by 43% of the stations, a seven-day schedule by 22%. (Addition of 43% and 22% does not produce 67%; several stations broadcast on Saturday and/or Sunday but not on every weekday.) Except for one station which broadcast only two days, all the others had five-day weeks.

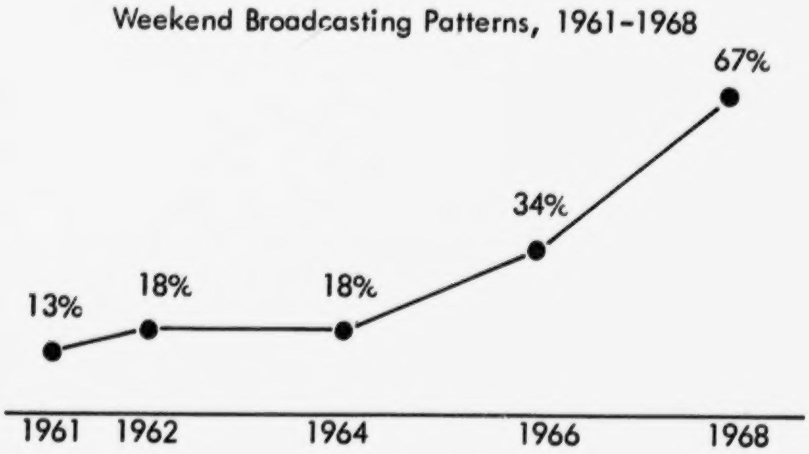


Fig. 4.3

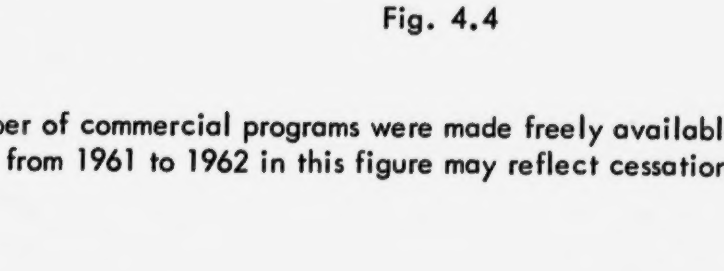


Fig. 4.4

* (A number of commercial programs were made freely available to ETV in 1961; the dip from 1961 to 1962 in this figure may reflect cessation of that practice.)

As might be expected, most weekend broadcasting was done by the community and state-owned stations. At least some weekend broadcasting was done by 88% of the community-owned stations and by 63% of the state-owned stations. A full seven days of programming was offered by 38% of the community-owned stations and 32% of the state-owned stations.

No school-owned station had a seven-day program schedule, but 35% of those stations had six-day schedules. Of the college-owned stations, 10% broadcast seven days and 57% had six-day schedules.

How much network affiliation was there?

A total of 133 stations belonged to NET, and all but 23 (15%) of the stations belonged to at least one regional or state network.

Number of Stations Belonging to Different Numbers of Regional or State Networks

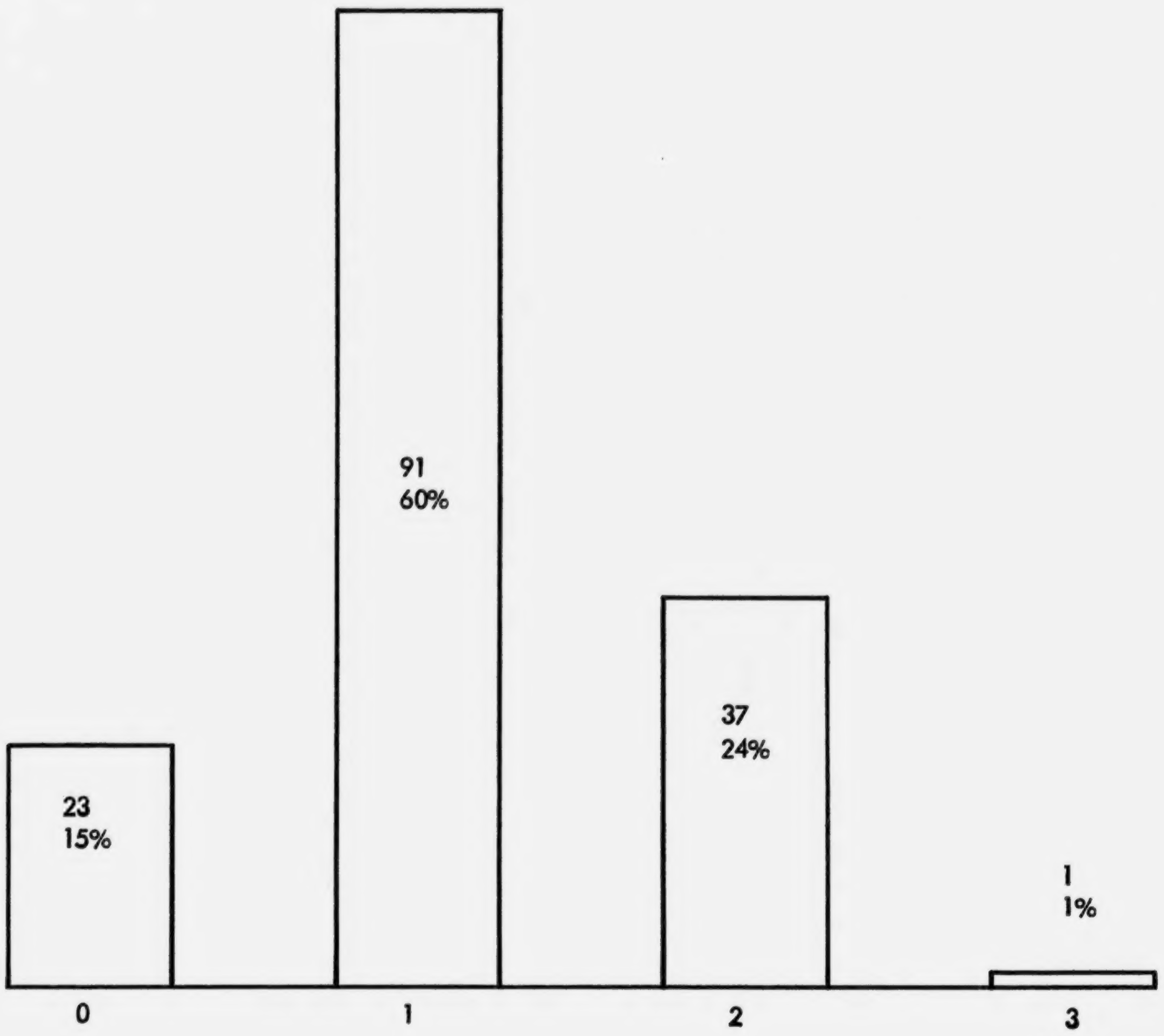


Fig. 4.5

B. *The Role of Color*

How much broadcasting was done in color?

Of the total hours of broadcasting during the week, 4.6% was done in color. Considering the general programming and ITV programming separately, 7.6% of the general programming and .9% of the ITV was colorcast. To look at the color situation another way, 91% of the color was in the general programming area, 9% in ITV.

Of the 116 stations which originated programming, 16% were capable of local production in color and 66% were capable of color transmission.

What color equipment did stations have?

Of the 116 stations which originated programming, 26% had both color film chain and color video tape equipment, while 9% had just color video tape equipment, and 5% had just a color film chain.

ETV Stations Color Capacity

	in 1968	in 1970	in 1975
Producing or expecting to produce locally in color	16%	46%	86%
Having or expecting to have color film chains	30%	75%	87%
Having or expecting to have color video tape equipment	35%	78%	88%

Fig. 4.6

How much of the audience was capable of viewing in color?

Most program directors estimated that from 20% to 30% of their 1968 audiences had color receivers. In considering what proportions of their audiences would have color receivers in 1970 and 1975, most program directors predicted around 50% and 80%, respectively.

The assistance of the program directors certainly was appreciated, but it is important to keep in mind that the percentages cited above are only modal estimates or predictions, and that general programming and ITV are commingled. A better idea of future ability to view ITV in color could be gained from a survey of schools, but that was outside the scope of this *One Week* survey.

C. What changes in programming or facilities did the stations anticipate in the next year?

Only 30 of the 116 originating stations did not anticipate major changes in programming or facilities in the next twelve months. Each of the other 86 expected at least one major change and many expected several.

Added equipment and increased programming were the changes most UHF-VHF stations anticipated. The particular types of equipment and program changes expected:

	No. of UHF-VHF Stations
New equipment, in general	6
Equipment to achieve, or add to, capability to broadcast in color	16
Remote units	9
Video tape recorders	5
Cameras	4
Transmitting towers	4
Complete satellite or translator stations	3
Transmitters	2
New facilities (space or buildings)	11
Added programming, in general	10
Added weekend programming	10
Added evening programming	9
Added local public affairs programming	8
Added instructional television and adult education	7
Added weekday programming	6
Added minority programming	3

The question on changes anticipated was open-ended. That is, program directors were just asked to volunteer what they expected. The results thus were not what they would have been if each program director had been confronted with a list of all possible changes and asked to check those likely to occur at his station.

One virtue of the approach employed was that the results give an indication of what was foremost on the minds of educational television station personnel. The approach did not reveal, however, the total number of stations planning particular changes. For example, more than five may have been planning to add video tape recorders, but certain program directors may not have thought of it when completing the questionnaire or may not have considered such an addition to be a major change.

Six of the UHF-VHF stations expected to increase local production, while one planned to eliminate it. Another station planned to decrease the quantity of local production in order to increase the quality. Where local production was to be increased, there was some indication that the principle content was to be local public affairs, which could not be presented in any other way.

Other expected changes:

	No. of UHF-VHF Station
Increasing transmitter power	5
Achieving interconnection	5
Going "full color"	3
Having more remote pickups	3
Adding personnel (Probably far more than 3 stations expect to add personnel; the question asked only for changes expected in programming and facilities.)	3

D. UHF-VHF general programming in detail

For the 1968 *One Week* survey, a program was classified as ITV if intended for in-class use or for credit viewing. Otherwise it was classified as general programming. Public-school and college classroom series thus were classified together as ITV, while most adult education was classified as general programming. The actual classification of each program was done by station personnel following guidelines provided them along with the data sheets.

How much general programming was there?

Of the total hours of broadcasting from May 6 to 12, 4,671 hours or 55% were general programming. (Repeats of previously broadcast programs and programs broadcast on different stations in the same network were added in separately to reach that total.) Of the 152 stations, 144 did some general programming.

How much general programming was there, compared with previous years?

The 4,671 hours of general programming was a sizable increase over the totals reported in previous years. In Figure 4.7, the 1968 total includes 297 hours of non-credit, non-classroom adult education, all of which was classified as ITV in 1964 and 1966.

Total General Programming Hours, 1962-1968

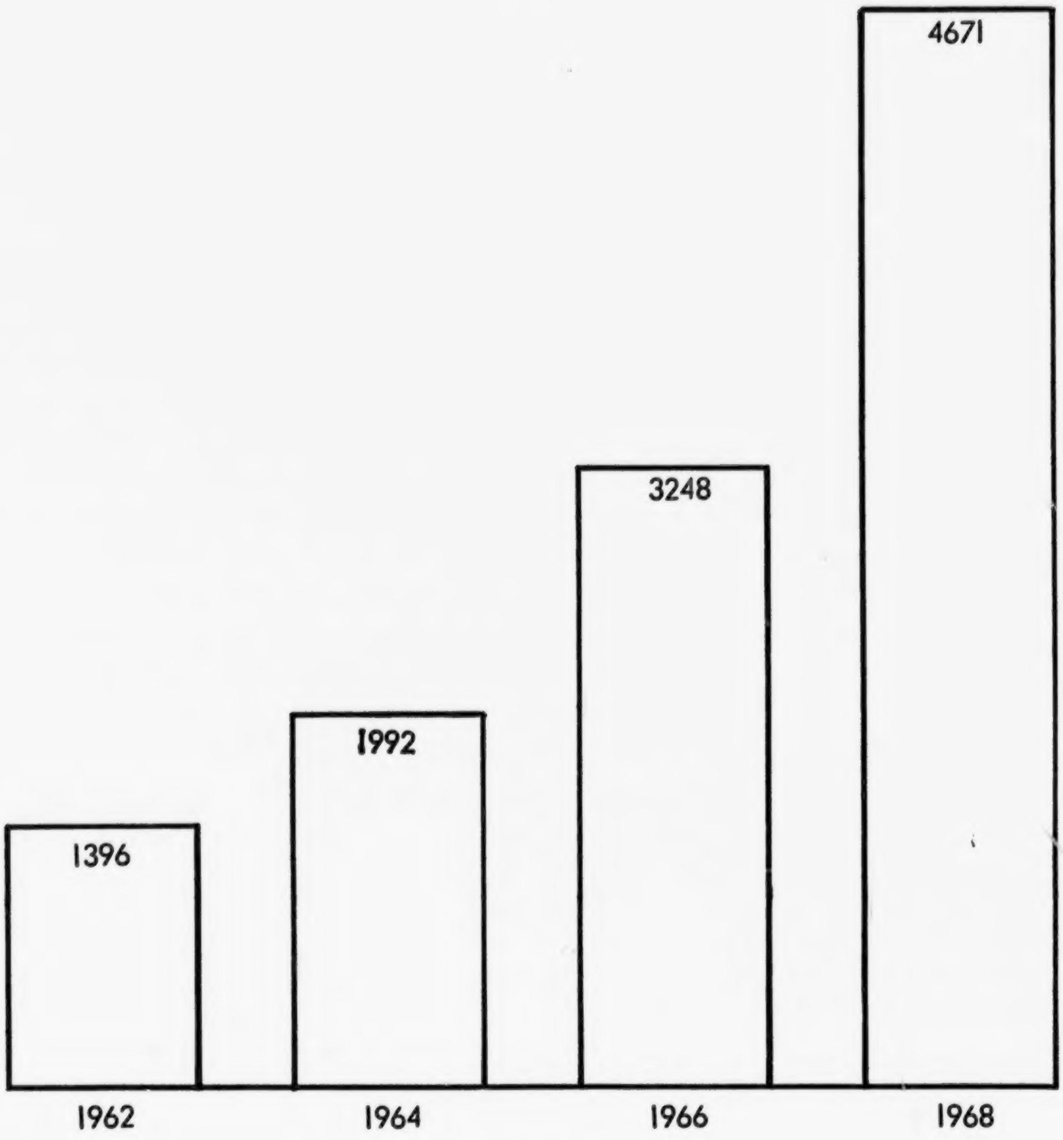


Fig. 4.7

Though the total broadcast hours devoted to general programming increased considerably, the proportion decreased. The expansion of some state networks which concentrate on ITV was one explanation of the decrease. To allow fair comparison with the previous years, the 1968 non-credit non-classroom adult education hours have been shifted out of the general programming category in the figure below. Otherwise 55% of the 1968 hours was general programming, but that 55% would have to be compared with adjusted—which would mean increased—proportions for the other years.

Proportion of Total Broadcast Hours Allocated to General Programming, 1962-1968

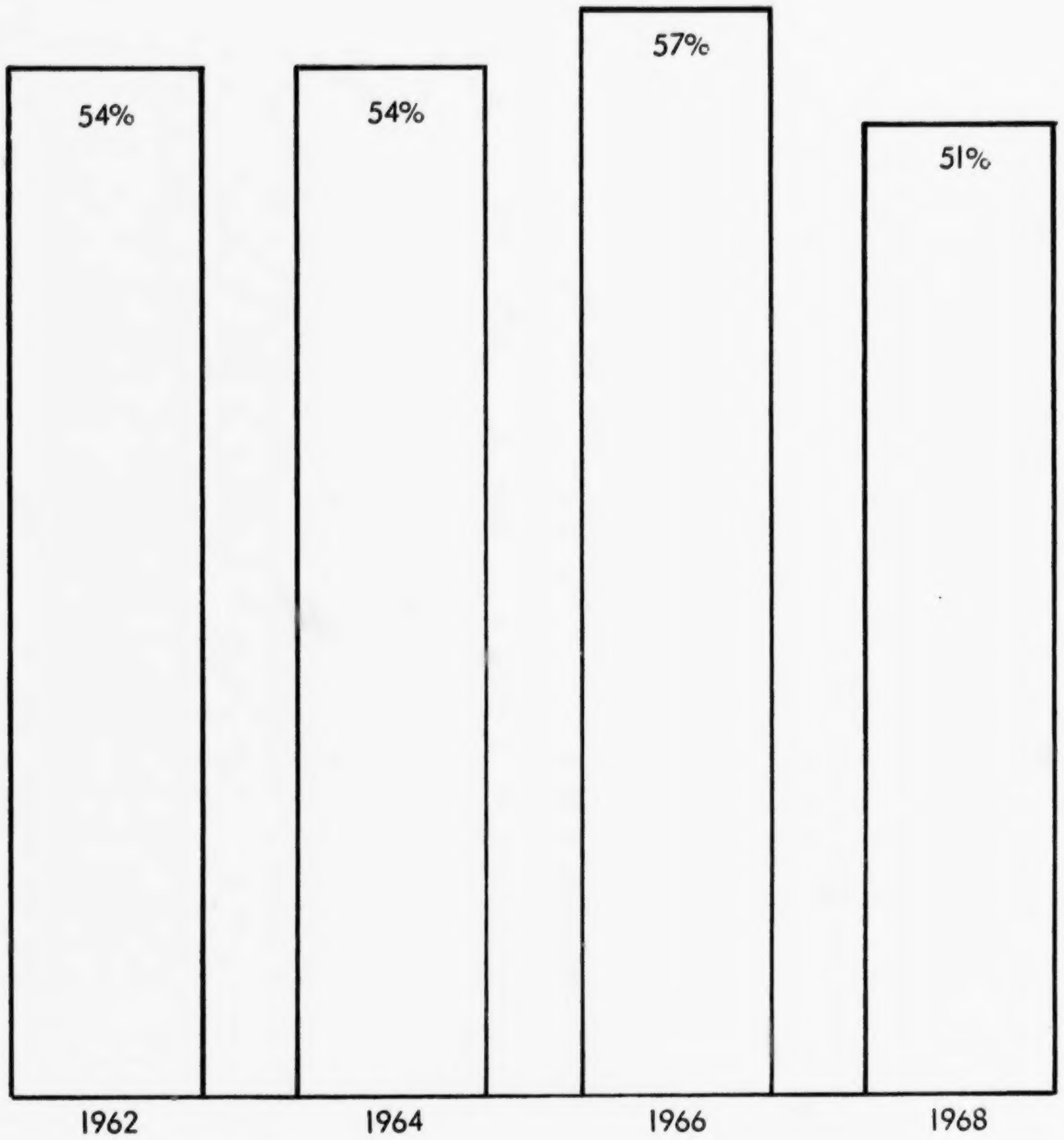


Fig. 4.8

The content of general programming

More general programming hours were in the area of public affairs (26.2%) than in any other area. The proportion of general programming time devoted to each category is shown below:

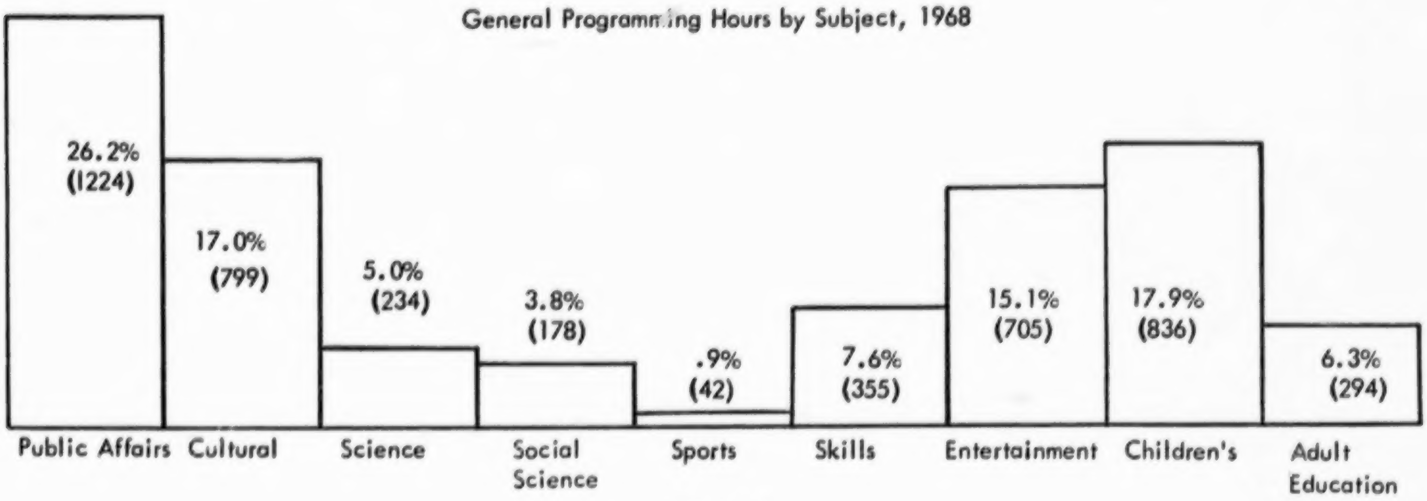

General Programming Hours by Subject, 1968

Fig.4.9

The "entertainment" category was provided in this survey because it had been used in the previous surveys. It filled quite a classification need. Some idea of how the category was used can be gained by a sample of the general programming titles which were classified that way:

Washington High School Band
"The Toy That Grew Up"
Film: "Canoeing the Big Country"
"Land of Great Fulfillment"
"London Line"
"People in Jazz"
"College Beat"
Film Feature
"A Time and a Place"
"Maine College Report"
"Jazz"
"Island of Pleasure"

The proportion of broadcast time devoted to each sub-category of public affairs is shown below:

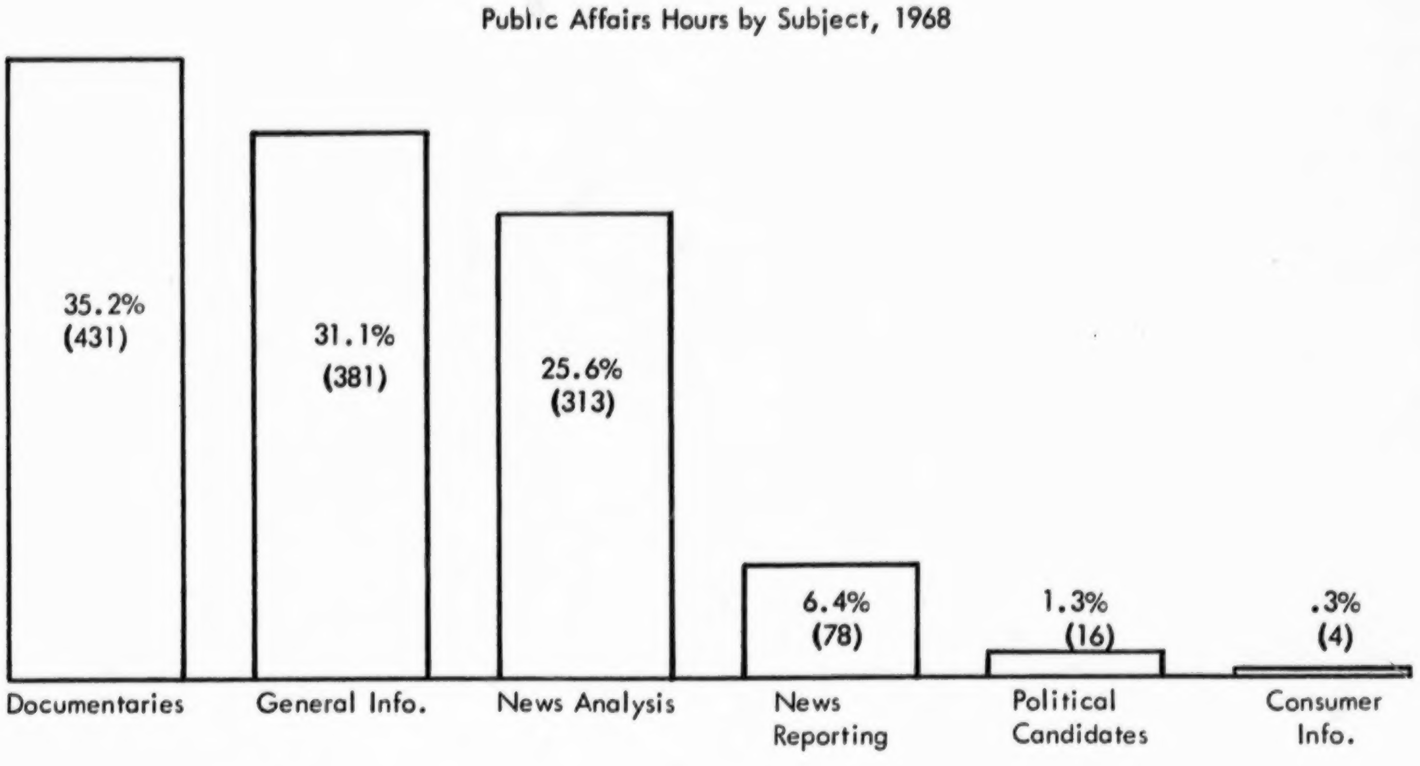

Public Affairs Hours by Subject, 1968

Fig. 4.10

The proportions of general programming hours devoted to each of the major subject areas are compared for different years in Figure 4.11. Some caution in interpreting these trends would be in order, since the system of classifying programs by subject has been somewhat different in the different *One Week* surveys. In 1968 all program subject classification was done by station personnel, whereas survey staff did the classifying in some of the previous years. Except for the possibility of the decision processes differing, the four subject areas shown below are considered directly comparable; some minor categories such as skills or "how to do it," which were not consistently employed in the different surveys and which do not overlap the four categories shown, are not included in the figure.

General Programming Hours in Selected Subjects, 1964-1968

	Children's		Public Affairs		Cultural		Entertainment	
	Hours	Percent of total	Hours	Percent of total	Hours	Percent of total	Hours	Percent of total
1964 Total hours = 1992	367	18.4	465	23.5	387	19.6	66	3.3
1966 Total hours = 3248	558	17.2	772	23.8	811	25.0	166	5.1
1968 Total hours = 4671	836	17.9	1224	26.2	799	17.1	705	15.1

Fig. 4.11

For whom was general programming designed?

The great majority (74.2%) of 1968 general programming was not designed for any special audience. The pre-kindergarten age level was the target for 6.4%, the kindergarten-6 grade level for 11.0%, and the 7-12 grade level for 2.9%, women for 2.6% and other special audiences for 2.8%.

The Sources of General Programming

Where did the stations obtain the programs?

Local production of general programming continued to decrease. In 1962, 29% of the general programming hours were locally produced, but this source accounted for only 13.4% of the 1968 total hours.

General Programming Hours Locally Produced, 1962-1968

	1962	1964	1966	1968
Total hours general programming	1396	1992	3248	4671
General program hours locally produced	405	404	494	626
Percentage general programming hours locally produced	29%	20.3%	15.2%	13.4%
Average hours per station	6.5	4.6	4.2	4.1

Fig. 4.12

There were five major sources of general programming, with NET supplying almost half. In Figure 4.13 below, a program produced by one station of a state network and then simulcast was counted as local production only once; then the program time was classified under "state network" and added in separately for each of the other stations carrying it. For other than local production, however, the programming time of each station was added in separately under the particular heading. If a four-station state network obtained a 30-minute program from NET, for example, all two hours were counted as coming from NET. The 6.5% of program hours in the figure below from "School Sources" apparently was obtained for ITV use and then broadcast to other audiences.

Sources of General Programming Hours, 1968

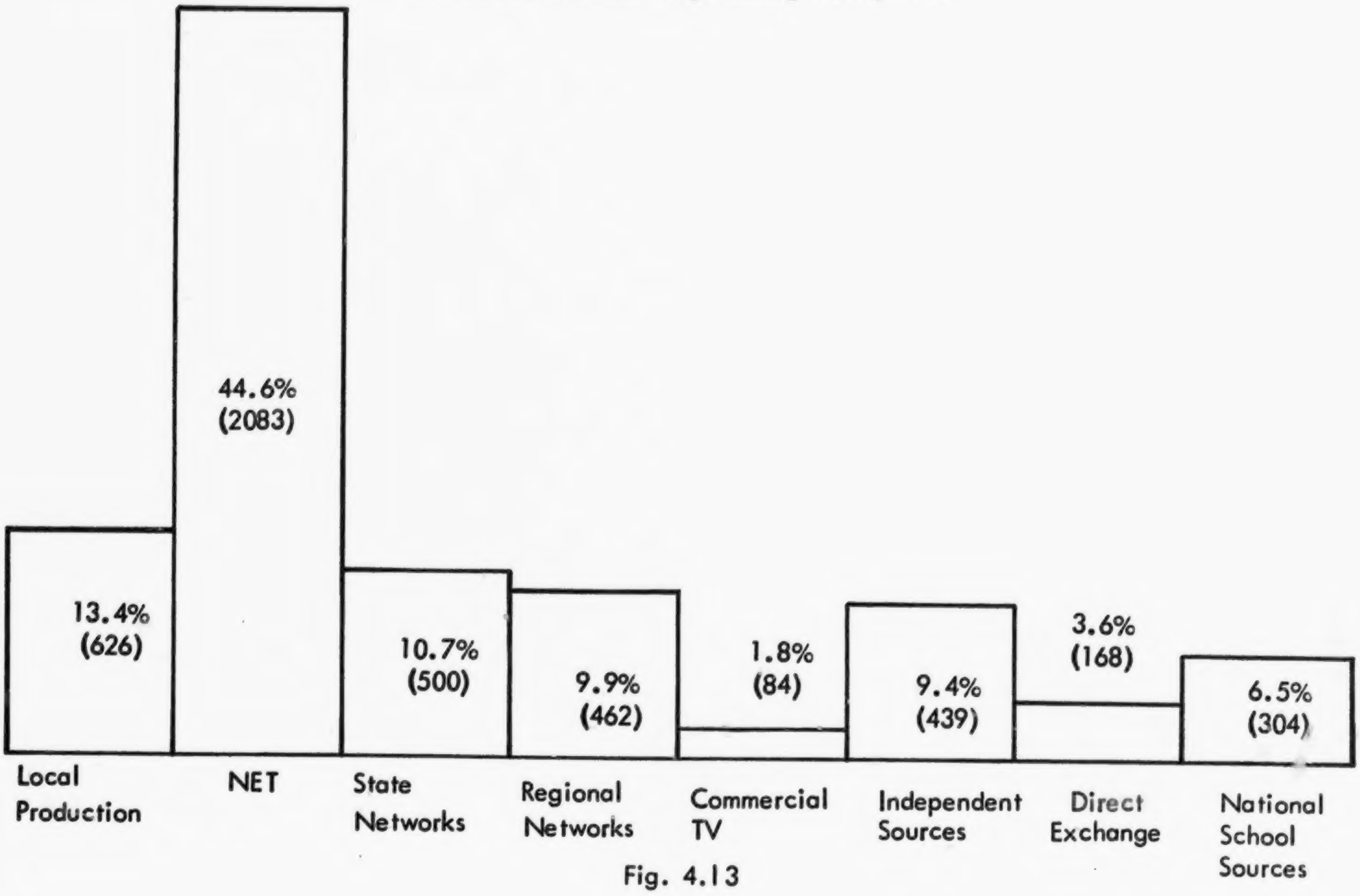


Fig. 4.13

Over the years, as pointed out above, the proportion of general programming produced locally has steadily decreased. As illustrated in the figure below, state and regional networking has steadily increased.

Major sources of general programming hours, 1964-1968

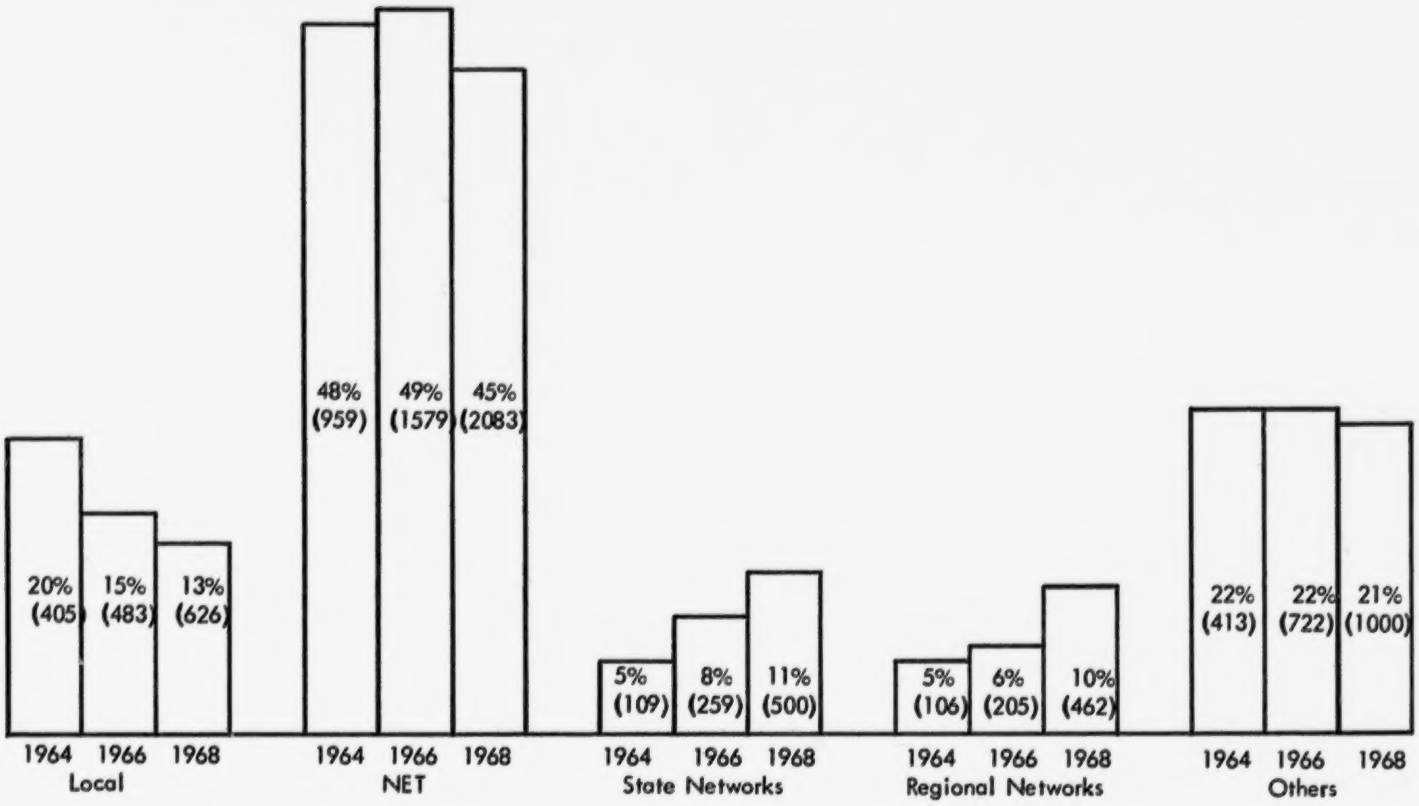


Fig. 4.14

In what form did the stations obtain the programs?

This question concerned the manner in which stations received or produced programming for broadcast. The majority of the general programming hours were presented on video tape, with NET the source of most of that video tape. In the figure below, to avoid confusion over the way networks link stations, such networks are treated as single units. Thus, the proportions are for the 116 "originating stations." Comparison with the manner in which programming was received and transmitted in 1964 and 1966 is not possible because this is the first *One Week* to seek such information.

General Programming Hours Obtained in Different Forms, 1968

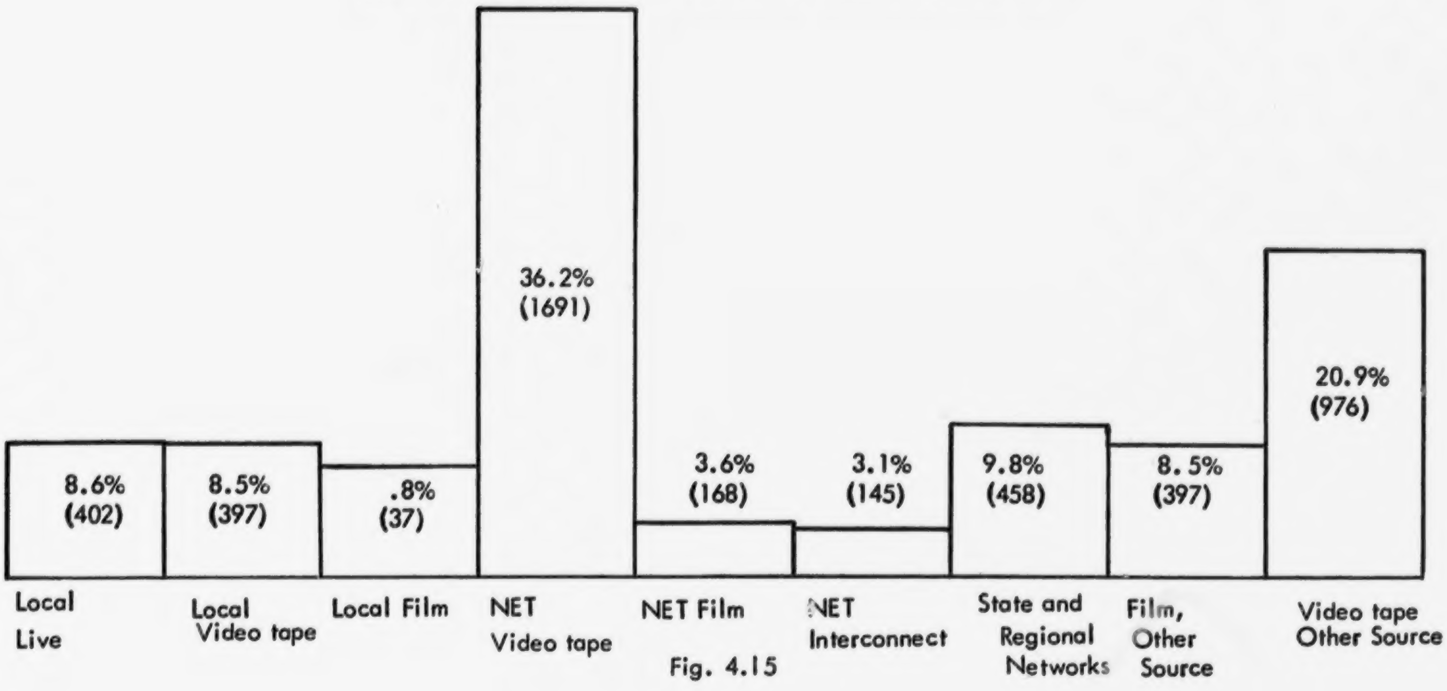


Fig. 4.15

How much general programming was repeated?

Of all the general programming hours, 23.7% represented repeats of programs presented at least once in the preceding seven days. Programs secured from state networks were repeated the least (only 14% of the program hours from that source were repeats) while 26.1% of the program hours from NET were repeats. Though a high proportion of the hours from the "school sources" (NIT, GPNITL, MPATI) were repeats, the actual amount of general programming from school sources was relatively small (see Figure 4.13). The proportion of programming from each source which was aired as a repeat by the 116 originating stations is shown below:

Repeat Hours in General Programming From Different Sources, 1968

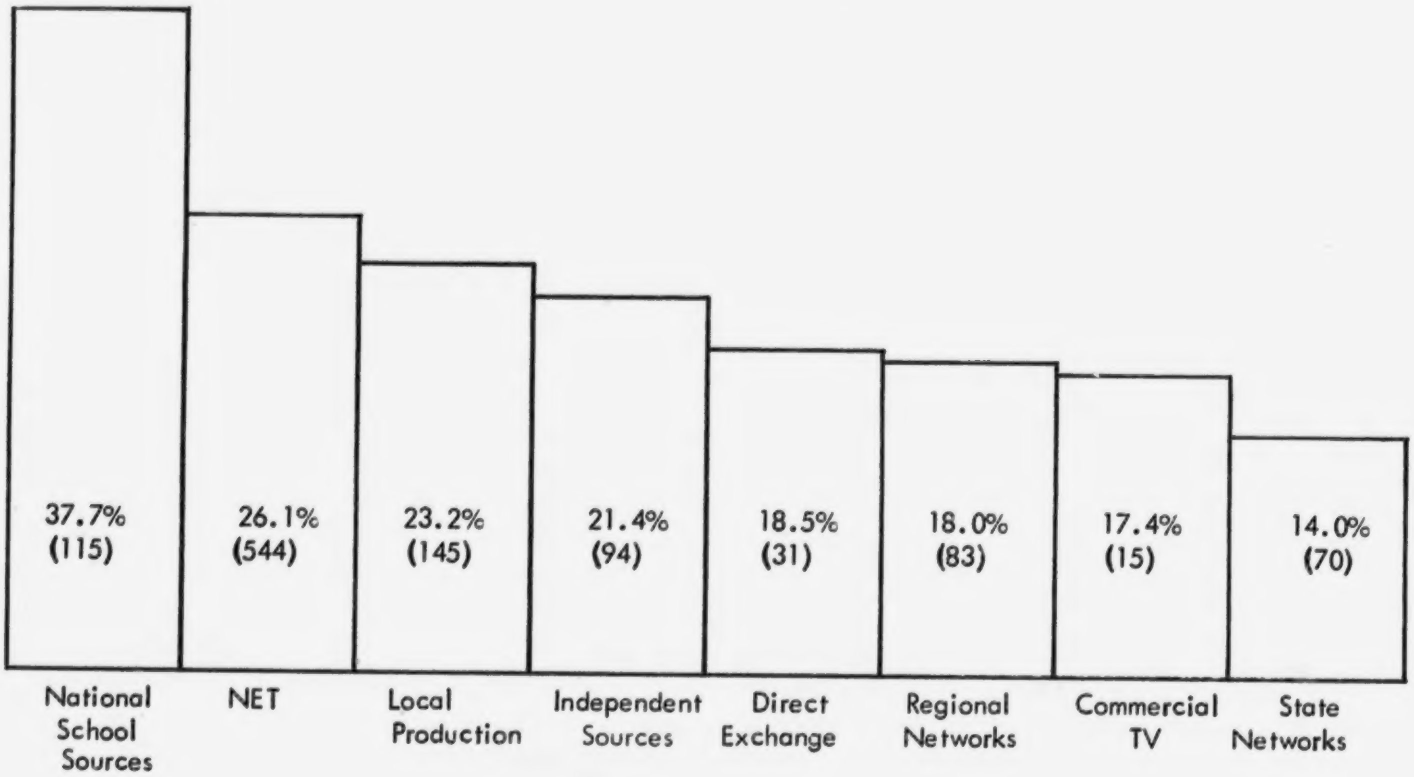


Fig. 4.16

E. *Instructional Television*

(A program was classified as ITV if intended for in-class use or for credit viewing. All others were classified as general programming.)

How much ITV was there?

Of the total hours of broadcasting from May 6 to 12, 3,863 hours or 45% were ITV. (Repeats of previously broadcast programs and programs broadcast on different stations in the same network were added in separately to reach that total.) All but five of the 152 stations did some ITV broadcasting.

How much ITV was there, compared with previous years?

The 3,863 hours of ITV was a sizable increase over the totals reported in previous years, as shown below. The 1964 and 1966 totals include a small amount of non-credit, non-classroom adult education programming, which was specifically excluded from the 1968 total.

Total I TV Hours, 1962-1968

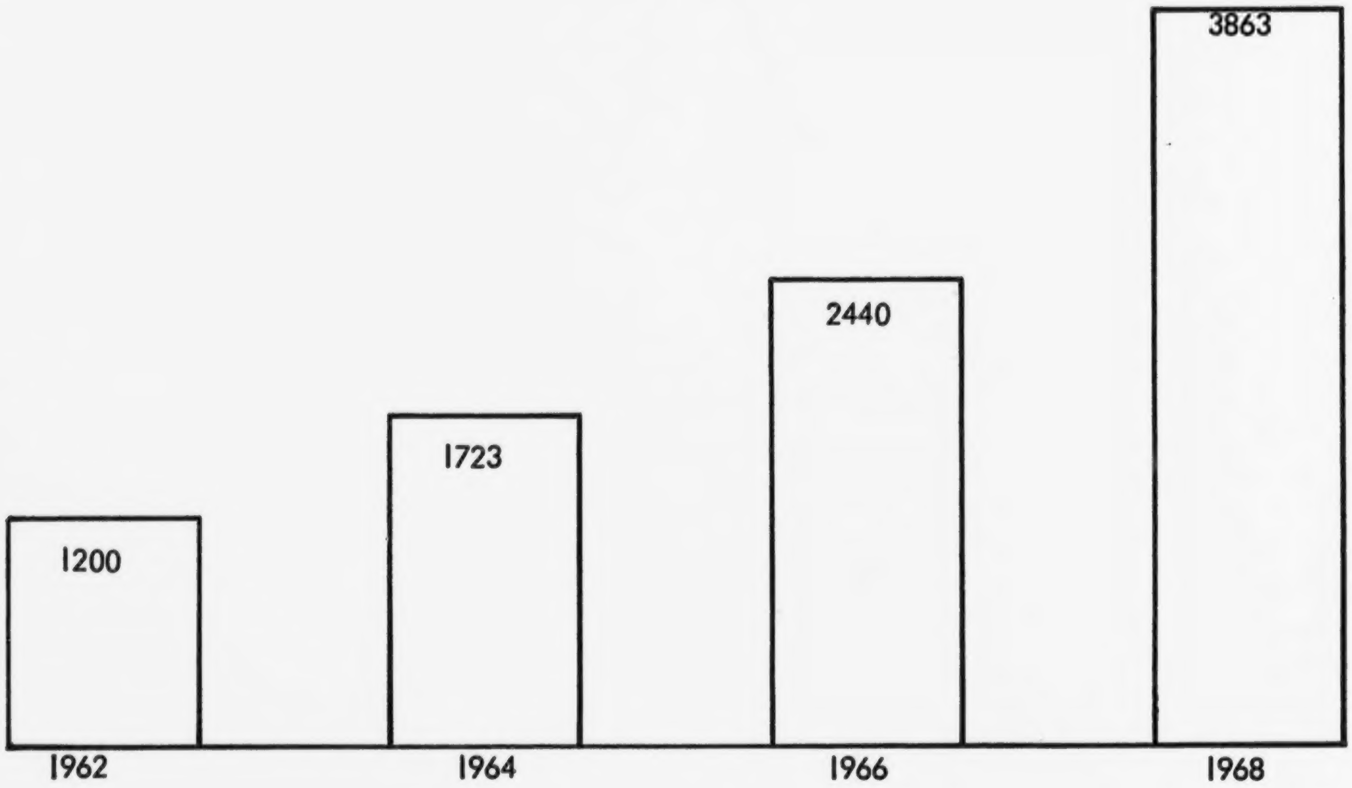


Fig. 4.17

Not only the total broadcast hours devoted to ITV increased, but the proportion did too. The expansion of state-owned ITV-oriented networks provides one good explanation for this. To allow fair comparison with the previous years, the 1968 non-credit, non-classroom adult education hours have been treated as ITV in the figure below. Otherwise only 45% of the 1968 hours were ITV, but that 45% would have to be compared with adjusted—which would mean decreased—proportions for the other years.

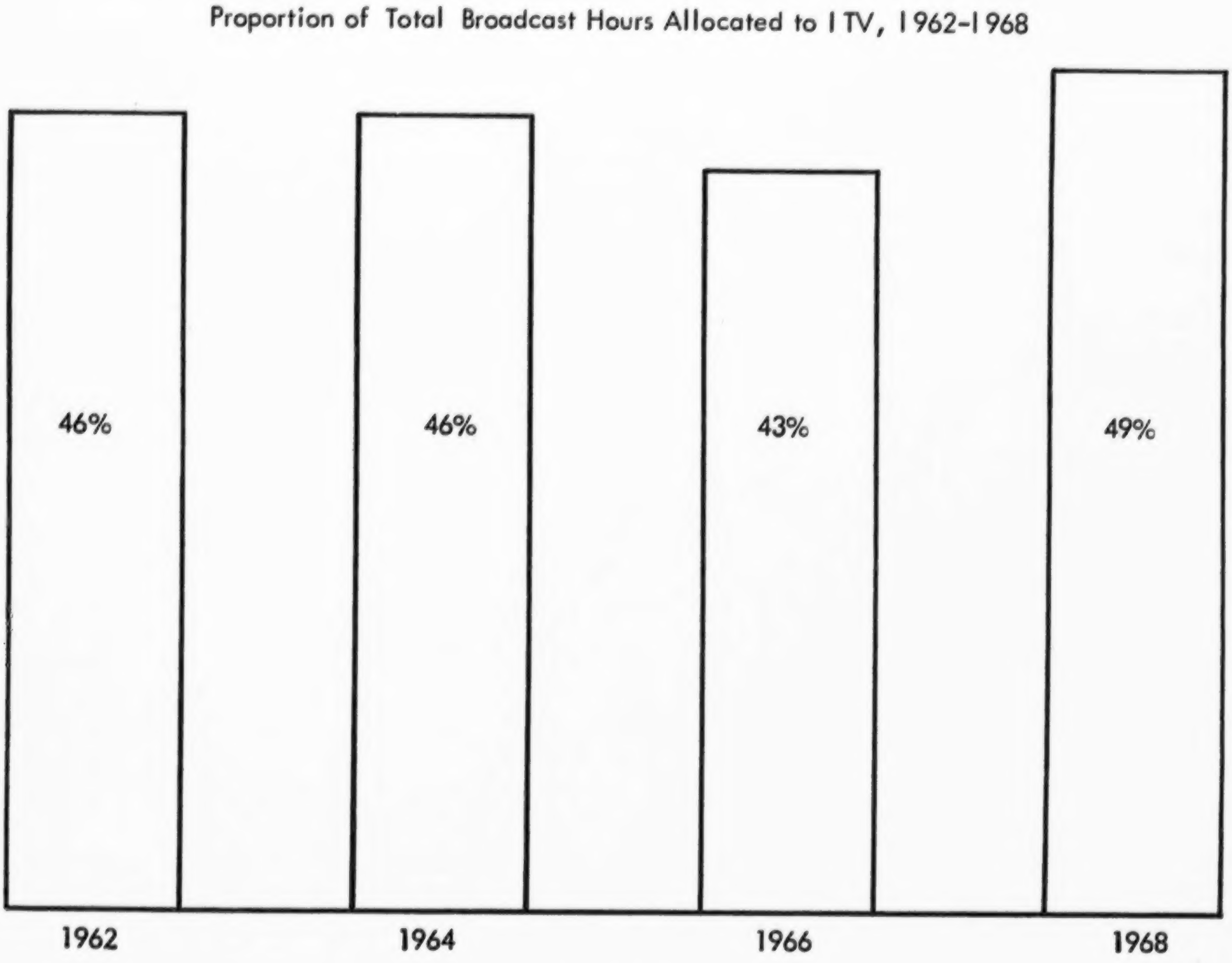

Proportion of Total Broadcast Hours Allocated to I TV, 1962-1968

Fig. 4.18

How many students were served by ITV?

(Through diligent application, station personnel could cite such things as program lengths with precision. Such things as "in-school population in the station's viewing area" could not be so precisely stated, however, and the reader should keep this in mind.)

Eighty-three of the 116 originating stations provided estimates of individual students served, and summing these produced a total of 12,720,262 students served by ITV during the school year. Eighty-five of the stations (or two more than responded to the above question) provided estimates of student course-enrollments, and the sum of these was 18,864,683. The average station estimate was 153,256 students and 221,937 course enrollments for the school year. Each student served thus received an average of about 1.5 courses from ITV.

Stations not reporting enrollments or number of students reached either did not broadcast any ITV or did not feel able to provide satisfactory estimates. Because of these exclusions, and because some of the originating stations did not provide enrollment estimates for their whole networks, the totals given above must be regarded as only rough approximations.

The originating stations—or at least 100 of them—also provided estimates of the in-school population in their viewing areas. The sum of these estimates was 34,913,357 students, for an average of 349,134 students per station. (Some students undoubtedly were counted twice, as a result of being in the viewing area of more than one station.) A rough estimate, then, based on the reports from the program directors, is that somewhere in the neighborhood of 44% of the students who could be reached by television were being served by ITV. Considering that some of the United States school population still is outside ETV broadcast range, this estimate is in reasonable agreement with the findings of an NEA study that 26% of the nation's teachers used ETV in 1967.*

How much did the average 30-minute locally-produced ITV program cost?

Program directors were asked to exclude recording and transmission costs, but it was difficult to be precise about what costs they should include. The mean estimate for the 75 stations submitting one was $1,005. The median may be a more meaningful measure here, because it is less affected by extreme cases. The median was $455, but 25 of the 75 stations did estimate their 30-minute ITV costs to be $1,000 or more.

What was the average ITV programming budget?

Eighty-five originating stations reported their total annual ITV programming budgets, and these ranged from $2,750 to $650,000. The mean was $153,019. Community-owned stations reported larger ITV budgets than other stations, with the average ITV budget for community-owned stations being $202,800. The average ITV budgets of the other stations were:

UHF-VHF Station Ownership	Average Annual ITV Budget
Community	$202,800
State	150,560
School	134,000
College	89,730

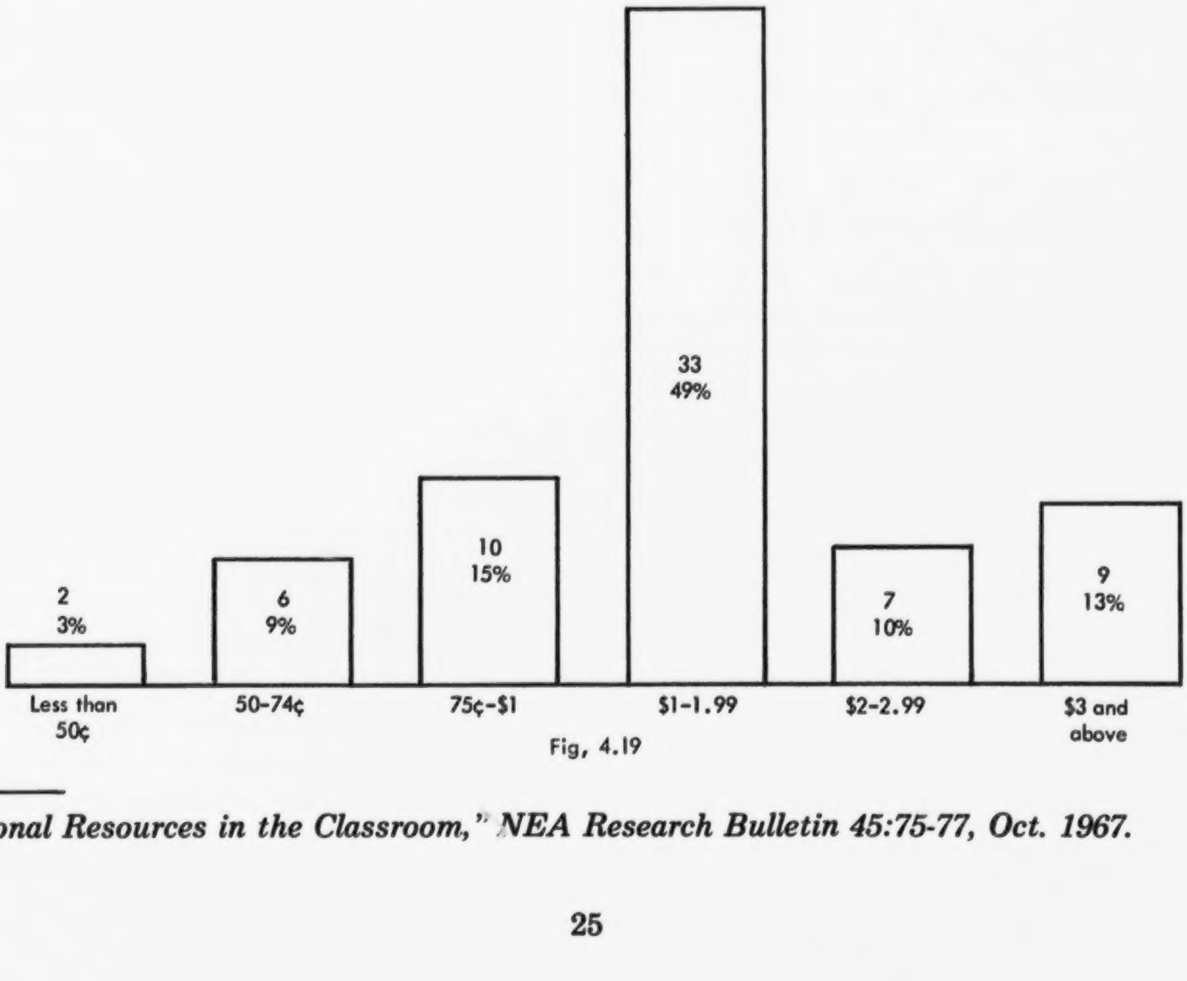
What assessments were made to support ITV?

Of the 152 stations, 61% made some type of assessment to support ITV. (Some of the other 39% did no ITV broadcasting.)

A per pupil assessment was made by 45% of the stations (with 34% having one standard rate and 11% having varying rates) and some other kind of assessment was made by 16%.

Of those 67 stations with a per pupil assessment, the mean and median charges were in the $1 to $1.99 range. The number and proportion of stations with each level of per pupil assessment are shown below:

Per-Pupil ITV Assessment, 1968



Fig, 4.19

"Instructional Resources in the Classroom," NEA Research Bulletin 45:75-77, Oct. 1967.

Most state-owned stations made no ITV assessments of any kind; only 37% did. Of the college-owned stations, 55% made some form of ITV assessment; of the school-owned stations, 59% did; and of the community-owned stations, 95% did.

How did stations help schools use ITV?

The majority of the 152 stations (68%) reported that workshops for teachers were planned as the need arose, and not routinely scheduled for all teachers during the year. Regular workshops for all teachers using ITV were planned by 15% of the stations, and no workshops at all were planned by 17% (including 3% or five stations which did no ITV broadcasting).

Most stations (59%) sent staff to visit schools when a particular request was received or a particular need determined. Regular staff visits were scheduled by 30%, while no visits at all were reported by 11%. (That 11% included 3% which did no ITV broadcasting.) General dissemination meetings for staff from all schools using the ITV programs were conducted by 43% of the stations.

Regular program guides were issued by 94% of the stations, and teachers' manuals by 92%. Additional material for use along with the ITV programs was supplied to schools by 53% of the stations.

How did stations expand ITV broadcasting?

The majority of the 152 stations (63%) had expanded service to additional grades in the last two years, and 74% had expanded service to additional schools. Offering additional (and different) courses was reported by 84% of the stations.

What subjects were taught with ITV?

More ITV hours were devoted to science than to any other subject in 1968, with social science, math and language arts following in order.

ITV Hours by Subject, 1968

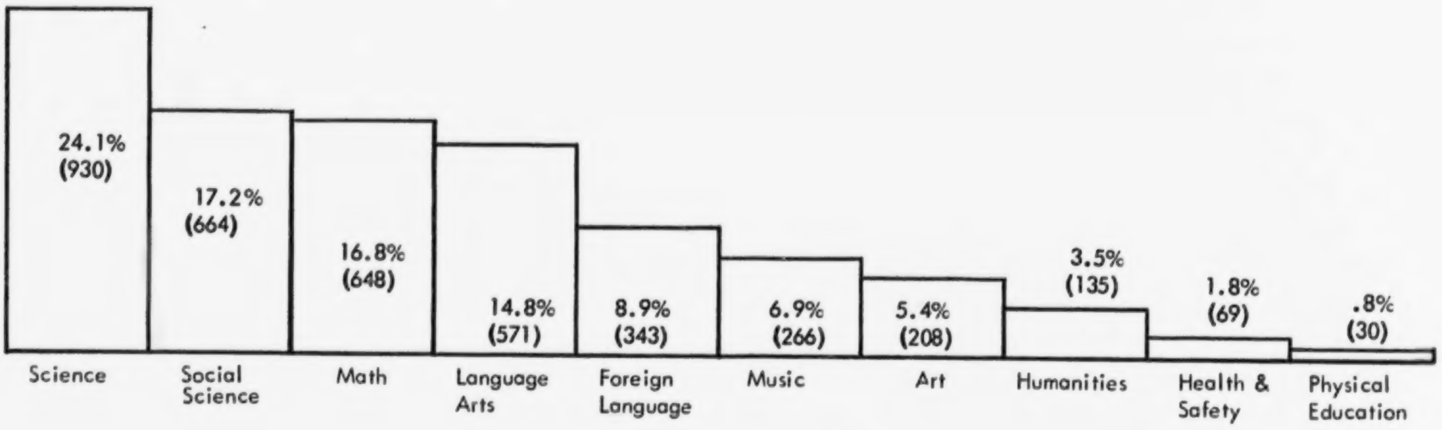


Fig. 4.20

Though many areas of study had about the same proportion of ITV program hours devoted to them in 1968 as in former years, math and foreign language showed marked change. Math more than doubled its share of program hours from 1966 to 1968, while foreign language's share was considerably reduced. Because of the large increase in total ITV hours from 1966 to 1968, there were almost as many actual hours of foreign language ITV in 1968 as in 1966. But there were almost four times as many math hours in 1968 as in 1966.

ITV Hours in Selected Subjects, 1964-1968

	1968		1966		1964	
	hours	percent	hours	percent	hours	percent
Science	930	24.1	490	20.1	346	23.0
Social Science	664	17.2	373	15.3	326	18.9
Math	648	16.8	166	6.8	117	6.8
Foreign Language	343	8.9	342	14.0	248	14.4
Literature, Humanities, Language Arts, English	707	18.3	322	13.2	226	13.1

Fig. 4.21

How much ITV was used at the different levels of education?

Considerably more ITV was employed in teaching fourth, fifth and sixth grade children than at any other level.

ITV Hours by Educational Level, 1968

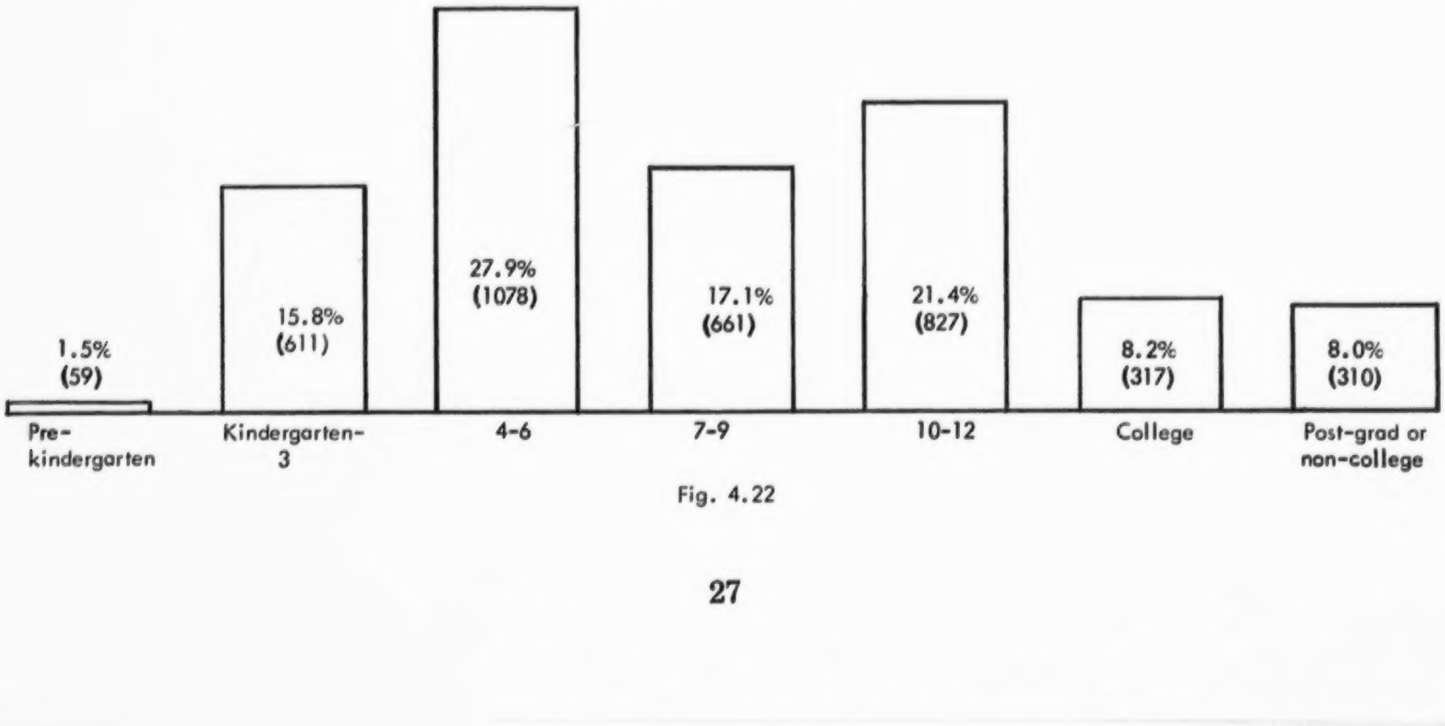


Fig. 4.22

The proportion of ITV hours for junior high and high school audiences continued to increase, as shown in the figure below. But with the large increase in total ITV hours over 1966, all levels had more broadcasting hours even though their shares of the total were reduced. The information from the 1964 and 1966 surveys was recalculated to allow direct comparison with 1968, because in those years the proportions reported were based on just school (K-12) television.

ITV Hours by Educational Level, 1964-1968

	K-6 grade	7-9 grade	10-12 grade	All other
1964 Total ITV hours = 1723	38.0% (655)	13.1% (226)	17.9% (308)	31.0% (534)
1966 Total ITV hours = 2440	44.5% (1086)	15.6% (380)	17.7% (432)	22.2% (542)
1968 Total ITV hours = 3863	43.7% (1689)	17.1% (661)	21.4% (628)	17.7%* (685)

* Includes measurement of undergraduate (8.2%) post-graduate or non-college ITV (8.0%), and pre-kindergarten (1.5%)

Fig. 4.23

The Sources of ITV

Where did the stations obtain the programs?

The trend away from local production of ITV continued. In 1962, 78% of instructional programming hours were locally produced. In 1968, only 35.4% of the ITV was being produced locally.

ITV Hours Locally Produced, 1962-1968

	1962	1964	1966	1968
Total hours ITV	1200	1723	2440	3863
ITV hours locally produced	935	968	1035	1367
% hours locally produced	77.9%	56.2%	42.4%	35.4%
Average hours per station locally produced	15.1	11.0	9.0	9.0

Fig. 4.24

For the first time more broadcast hours came from another source—state networks. 39.9% of all ITV was obtained from state networks. Where a state network simultaneously broadcast a program produced by one of the stations, or one produced especially for that network, the program was counted as a local production once and—if the network in question had five members—as a state-network distributed program four other times.

The proportion of ITV from each source is shown below:

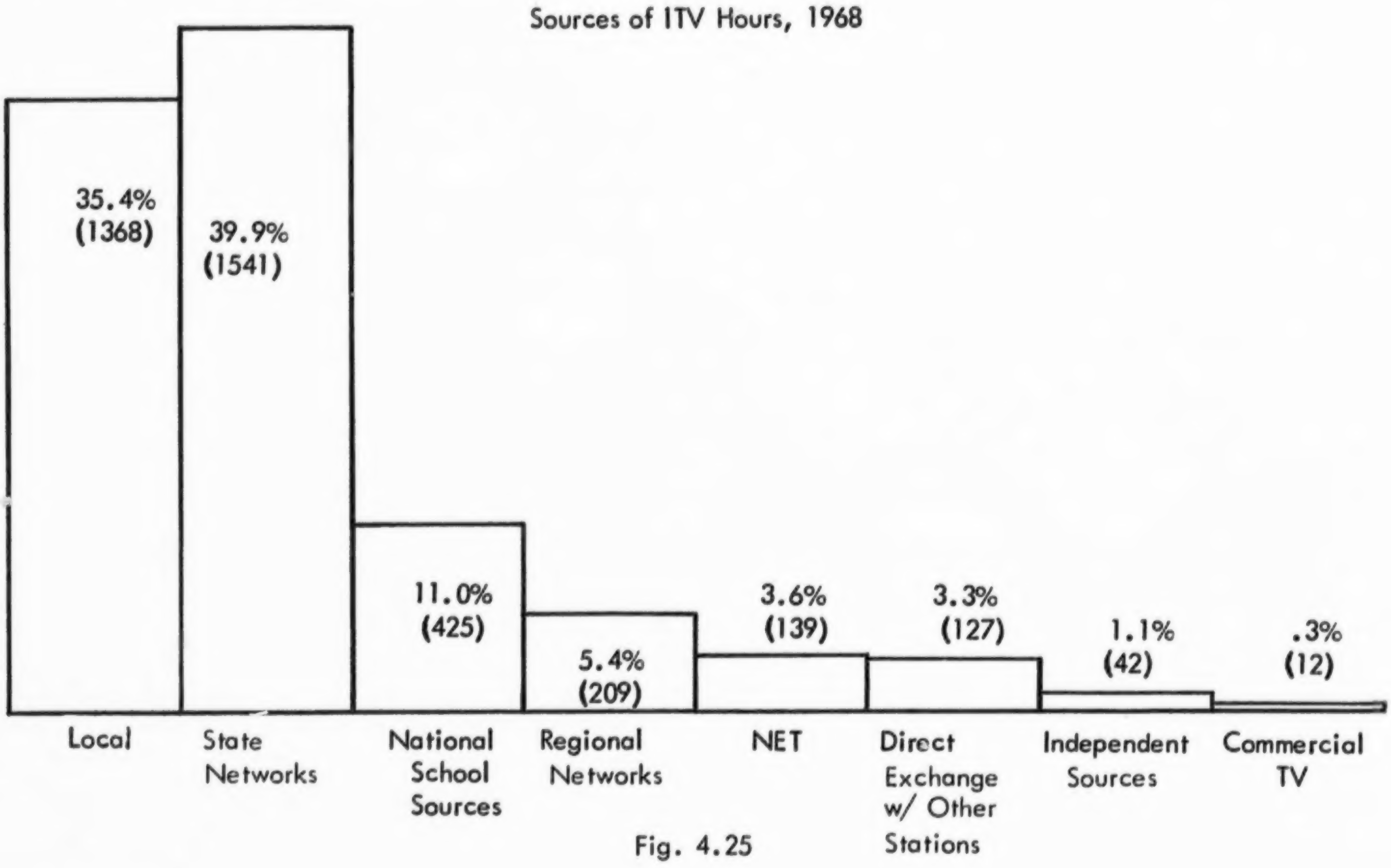

Sources of ITV Hours, 1968

Fig. 4.25

The proportions of ITV from major sources in 1968 are compared with proportions in previous years in the figure below. Some minor sources are not specifically identified because comparable data were not available for the previous years. A small amount of non-classroom, non-credit adult education broadcasting is included for 1964 and 1966, whereas the 1968 proportions are based on strictly classroom or credit-oriented broadcasting.

Major Sources of ITV Hours, 1962-1968

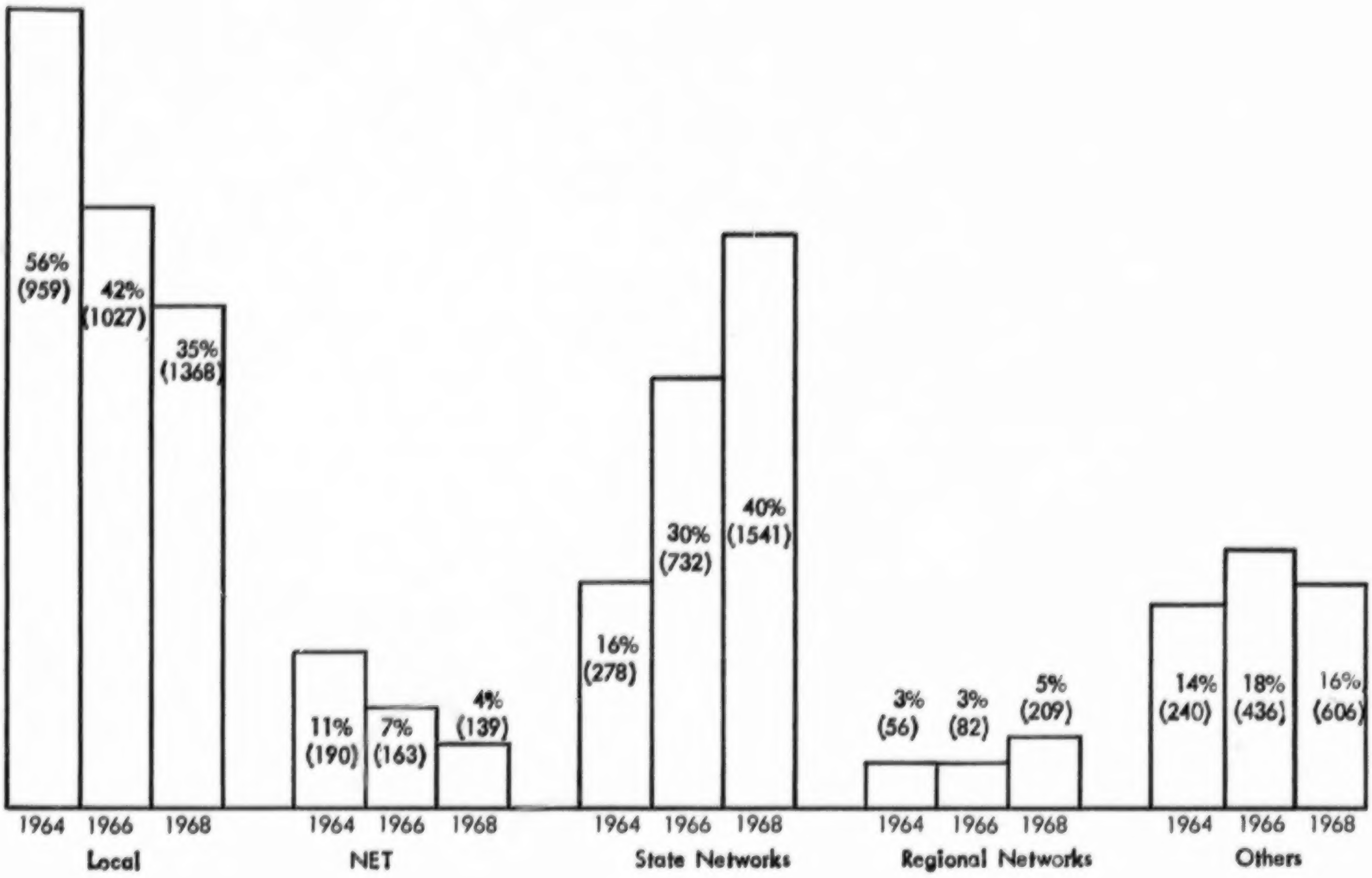


Fig. 4.26

In what form did the stations obtain the programs?

This question concerned the manner in which stations received or produced programming for broadcast. Almost 70% of the 1968 ITV broadcast hours were presented from video tape, with almost 43%

of the total being from video tape held locally. In Figure 4.27 below, to avoid confusion over the way networks link stations, networks are treated as single units. Thus the proportions are for the 116 "originating stations:"

ITV Hours Obtained in Different Forms, 1968

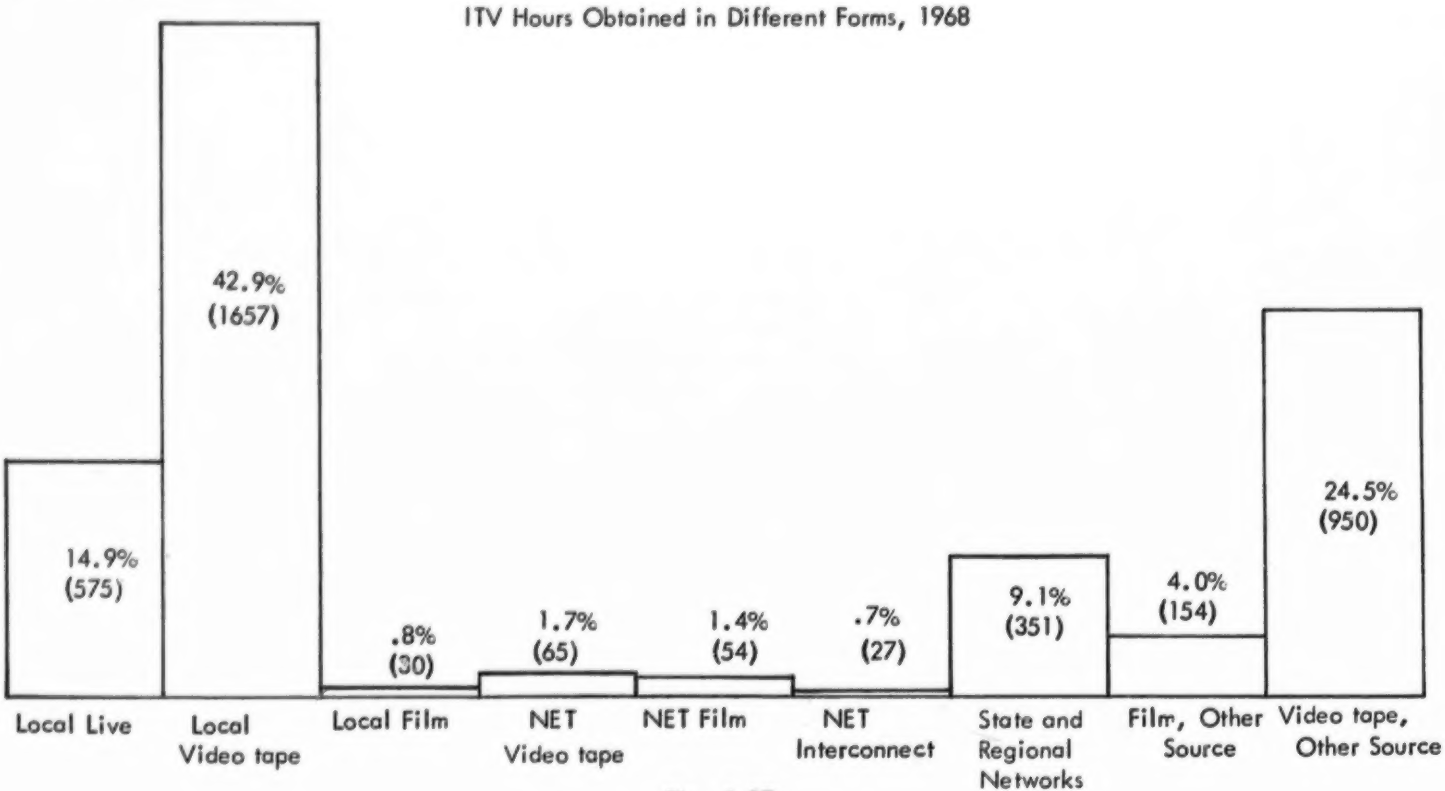


Fig. 4.27

How much ITV was repeated?

Of all the ITV hours, 41.3% represented repeat airing of programs presented at least once in the preceding seven days. Programs secured from "school sources" (such as MPATI, GPNITL, NIT) were repeated the most, while programs from state networks were repeated the least. The proportion of programming from each source which was aired as a repeat by the 116 originating stations is shown in Figure 4.28.

Repeat Hours in ITV From Different Sources, 1968

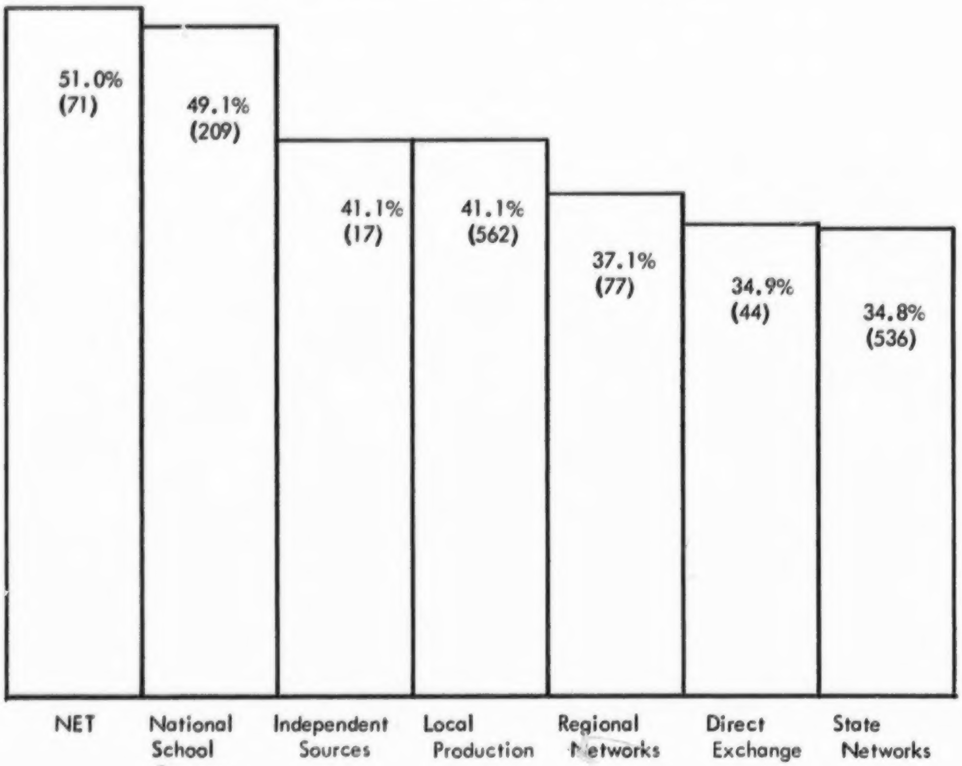


Fig. 4.28

How long were the average 1968 lessons? How many lessons were in the average course?

From the 17-minute mean average length of kindergarten-third grade lessons, the average length ranged up to 36 minutes for college level lessons. The average number of lessons per course ranged smoothly upward in the schools, from 38 lessons in kindergarten-third grade to 59 in high school. The average college-level course consisted of 42 lessons.

Length of Lesson and Number of Lessons
by Educational Level, 1968

	average minutes per lesson	average number of lessons per course
Pre-kindergarten	20	48
Kindergarten-3	17	38
4-6	20	40
7-9	24	51
10-12	28	59
College	36	42
Post-grad or non-college	30	25

Fig. 4.29

Humanities lessons were the longest, averaging 28 minutes, with the mean average physical education lesson being the shortest. Math and foreign language courses had the highest average number of lessons—60 in each case. Courses in health and safety had the lowest average number of lessons, 25.

Length of Lesson and Number of Lessons
by Subject Matter, 1968

	average minutes per lesson	average number of lessons per course
Humanities	28	41
Science	25	46
Math	25	60
Health & Safety	25	25
Social Science	23	41
Art	22	28
Language Arts	21	36
Music	20	41
Foreign Languages	19	60
Physical Education	17	26

Fig. 4.30

5. THE TYPICAL UHF-VHF STATION

Because a station's policies and operations naturally depend a great deal on how it is being financed, this section of *One Week* describes the programming of the typical school-owned, college-owned, state-owned and community-owned station.

A. The Typical School-Owned Station

How much broadcasting was there, and how much of it was ITV?

The eighteen school-owned stations averaged 42.4 hours of broadcasting during the week, with 51% general programming (21.6 hours per week) and 49% ITV (20.8 hours per week).

How much weekend broadcasting was there?

Among the school-owned stations there was no programming on Saturday, and only 3.9% of the total broadcast hours were on Sunday.

How much color broadcasting was there?

Of the total hours of programming, 3.3% were in color.

General programming—what subject areas were given what share of the scheduling?

Slightly more than half the school-owned stations' total hours were devoted to general programming, and public affairs received the largest share of those hours.

General Programming Hours by School-Owned Stations
Figures in ( ) indicate average hours per station

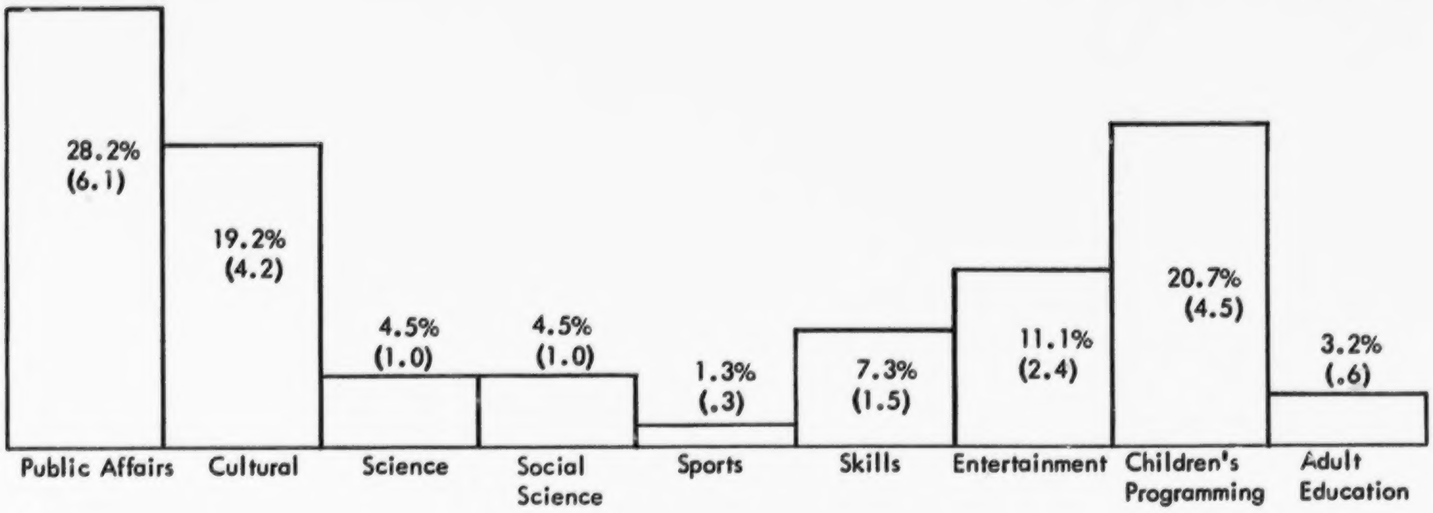
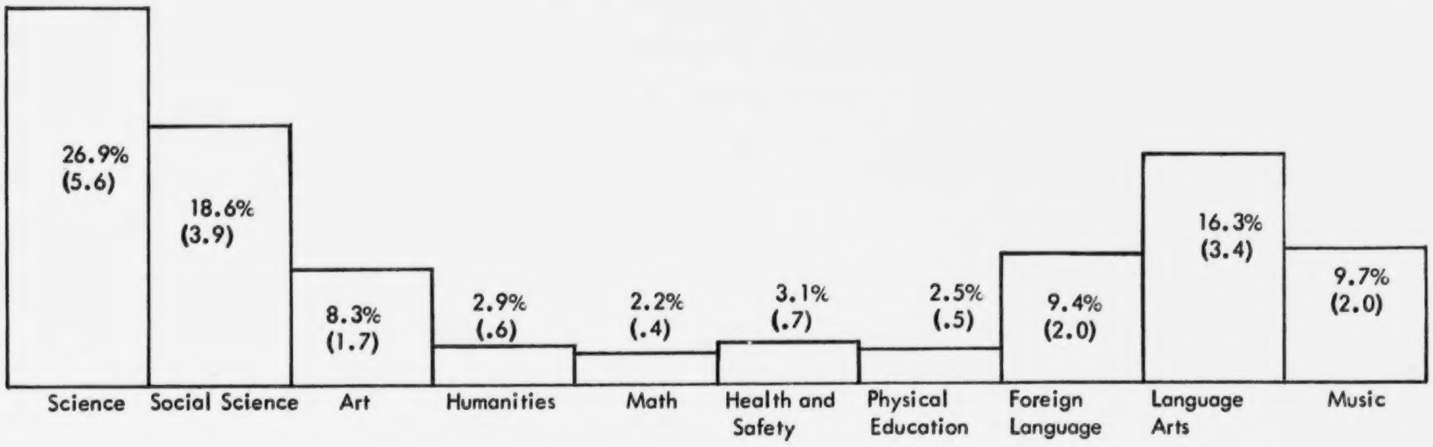


Fig. 5.1

ITV—what share of the scheduling were different subject areas given?

School-owned UHF-VHF stations devoted more ITV hours to science than to any other subject.

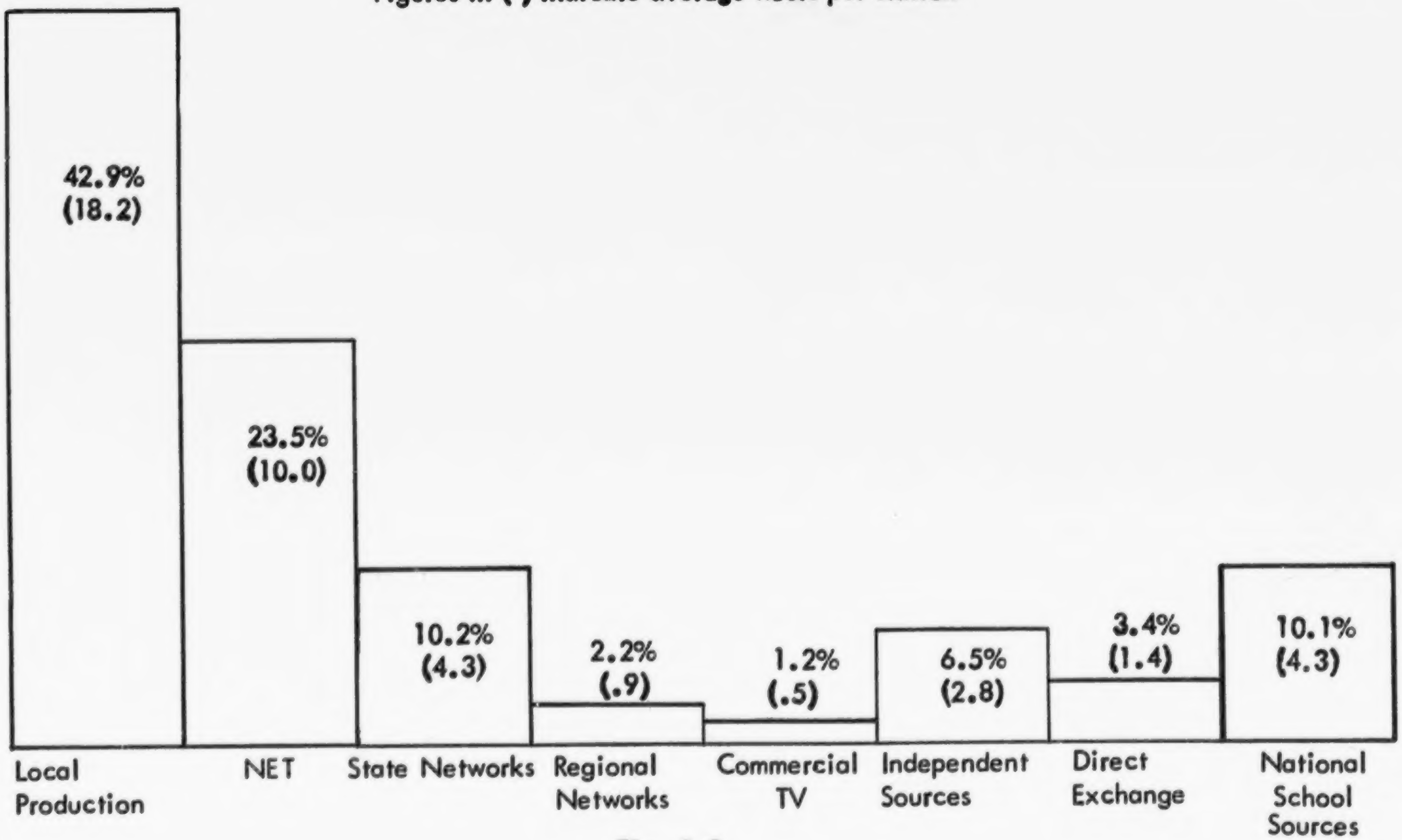

ITV Hours by School-Owned Stations

Figures in ( ) indicate average hours per station

Fig. 5.2

Where were the programs obtained?

More than 40% of all program hours of school-owned stations came from local production.


Sources of All Programming by School-Owned Stations

Figures in ( ) indicate average hours per station

Fig. 5.3

B. The Typical College-Owned Station

How much broadcasting was there, and how much of it was ITV?

The 44 college-owned stations averaged 54.6 hours of broadcasting during the week, with 70% general programming (38.2 hours per week) and 30% ITV (16.4 hours per week).

How much weekend broadcasting was there?

Among the college-owned stations, 1.9% of the broadcast hours were on Saturday, and 7.9% on Sunday.

How much color broadcasting was there?

Of the total hours of programming, 4.8% were in color.

General programming—what subject areas were given what share of the scheduling?

Of the general programming hours, the largest share was devoted to public affairs.

General Programming Hours by College-Owned Stations

Figures in ( ) indicate average hours per station

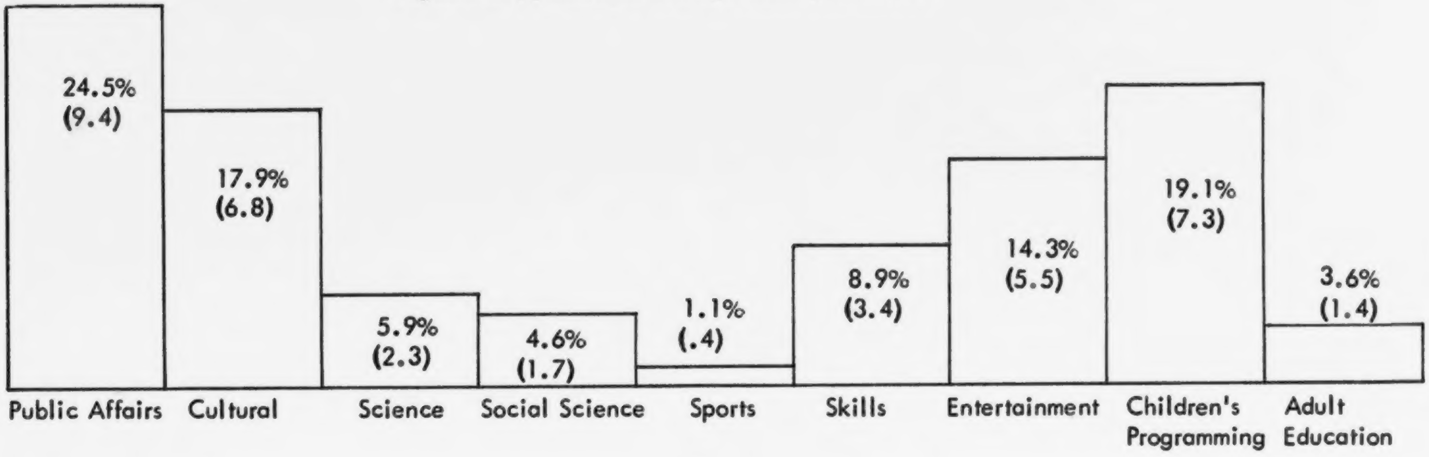


Fig. 5.4

ITV—what share of the scheduling were different subject areas given?

College-owned UHF-VHF stations devoted more ITV hours to science than to any other subject category, with social science second.

ITV Hours by College-Owned Stations

Figures in ( ) indicate average hours per station

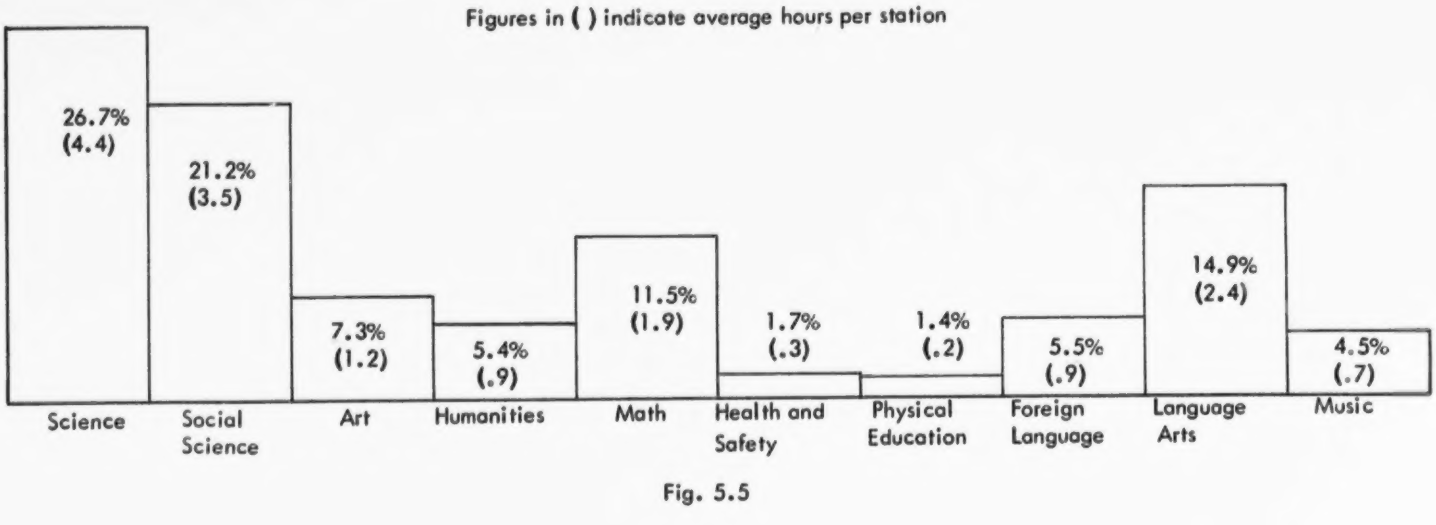


Fig. 5.5

Where were the programs obtained?

NET was the largest source of program hours, with 33.2% of the total, followed by local production and state networks.

Sources of All Programming by College-Owned Stations

Figures in ( ) indicate average hours per station

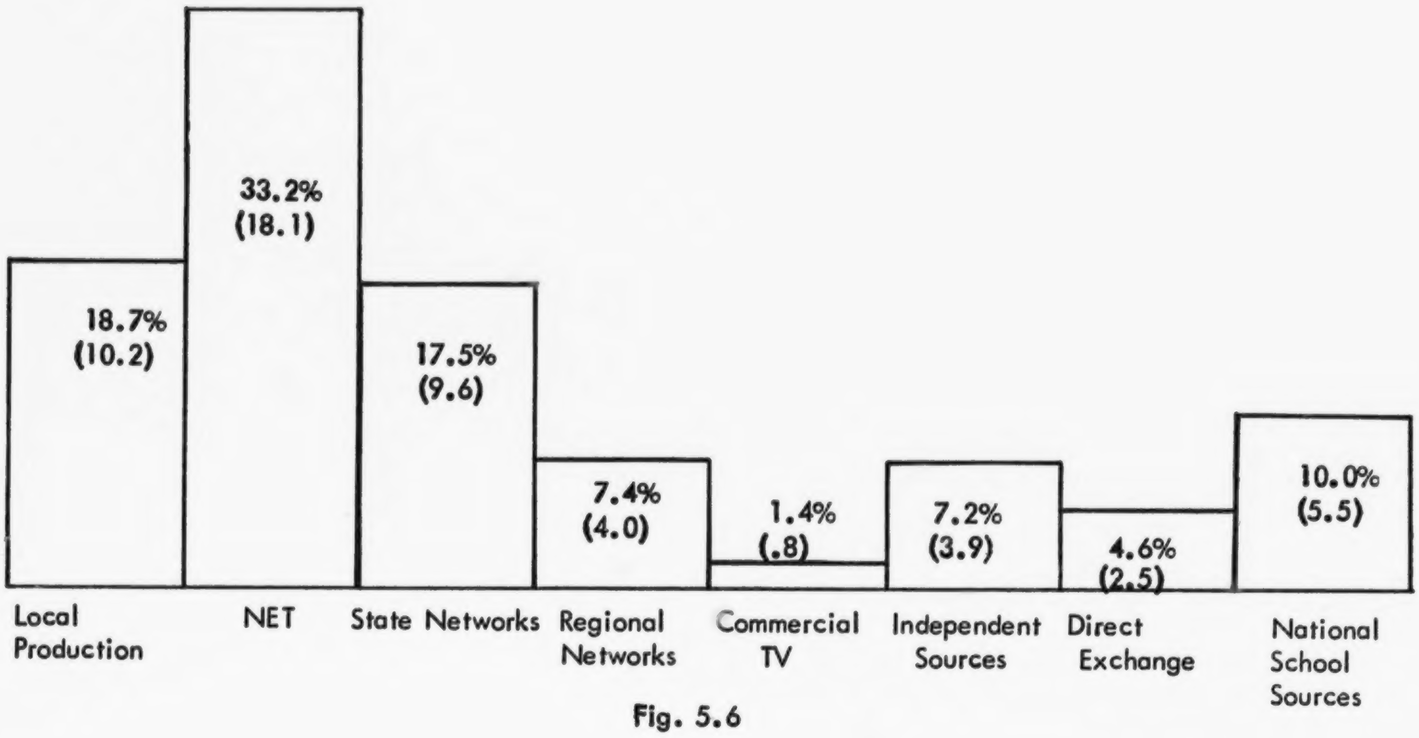


Fig. 5.6

C. The Typical State-Owned Station

How much broadcasting was there, and how much of it was ITV?

The 40 state-owned stations averaged 47.5 hours of broadcasting during the week, with 30% (14.3 hours per week) general programming and 70% (33.2 hours per week) ITV.

How much weekend broadcasting was there?

Among the state-owned stations, there was no programming on Saturday, and only 1.1% of the total broadcast hours were on Sunday.

How much color broadcasting was there?

Of the total hours of programming, fewer than 1% (actually, .4%) were in color.

General programming—what subject areas were given what share of the scheduling?

Of the general programming hours, more were classified as entertainment than as any other category. Public affairs was the second largest category.

General Programming Hours by State-Owned Stations

Figures in ( ) indicate average hours per station

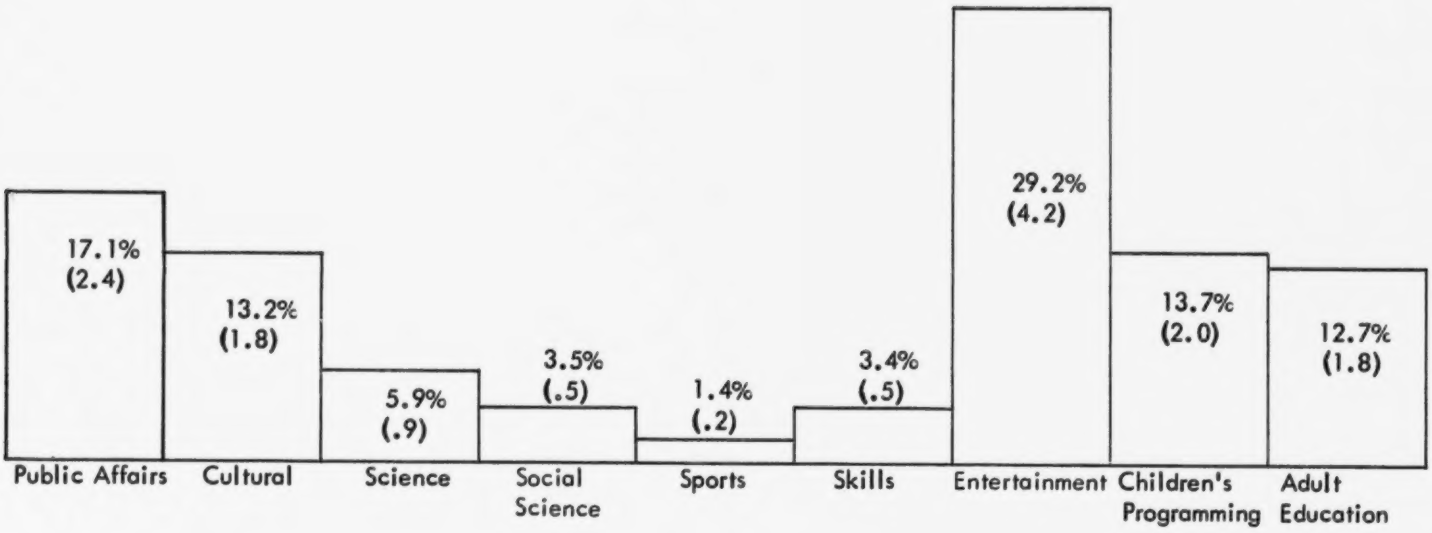


Fig. 5.7

ITV—what share of the scheduling were different subject areas given?

State-owned UHF-VHF stations devoted more ITV hours to math than to any other subject, with science second.

ITV Hours by State-Owned Stations

Figures in ( ) indicate average hours per station

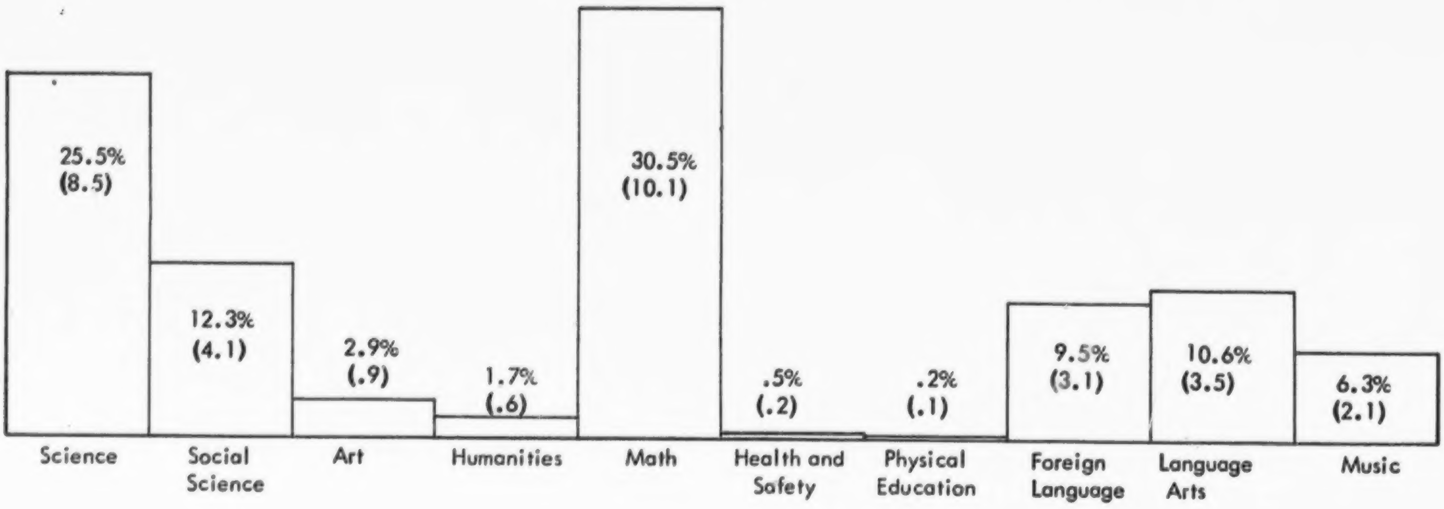


Fig. 5.8

Where were the programs obtained?

Almost two-thirds of the program hours of state-owned stations came from state networks.

Sources of All Programming by State-Owned Stations

Figures in ( ) indicate average hours per station

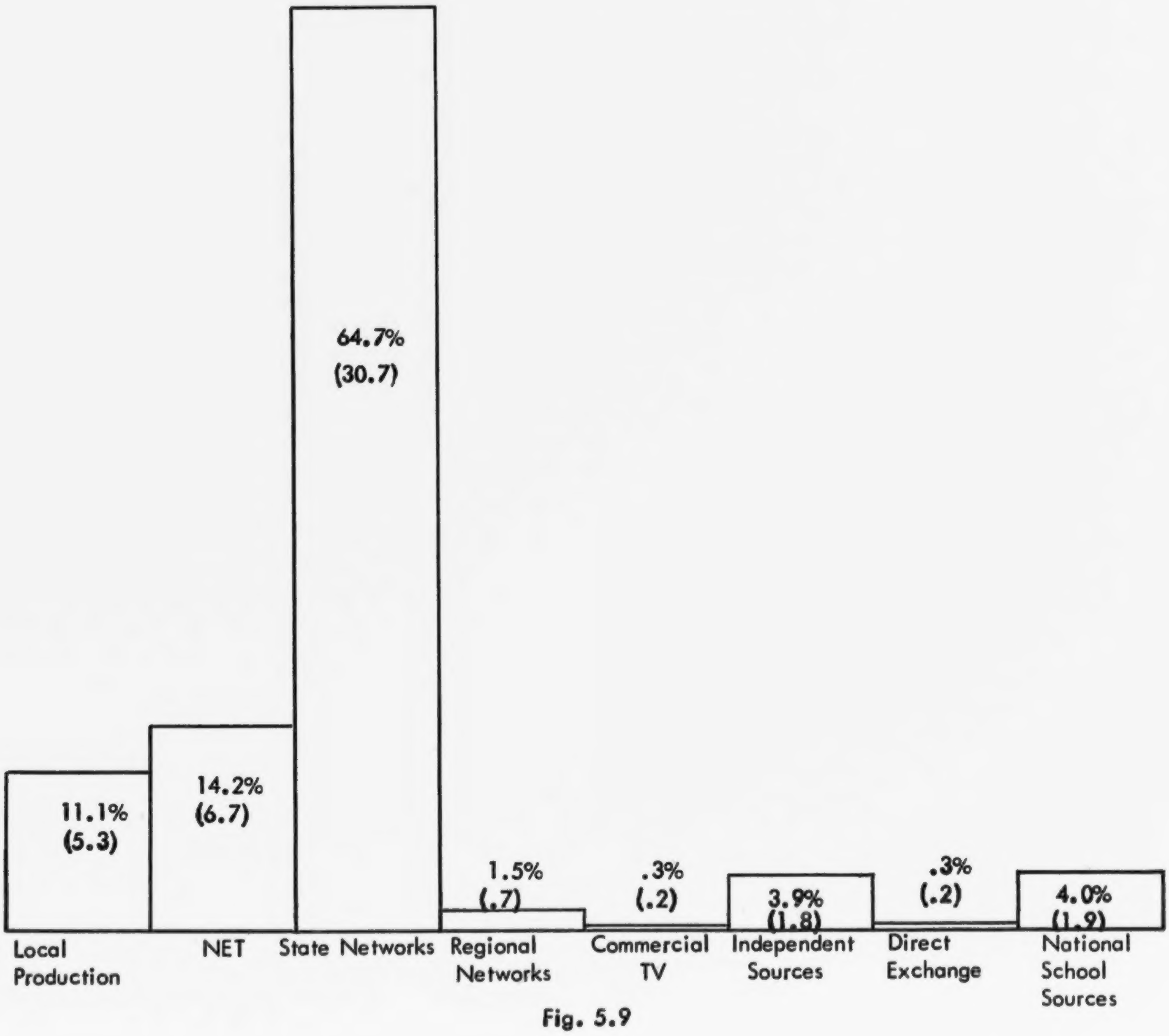


Fig. 5.9

D. The Typical Community-Owned Station

How much broadcasting was there, and how much of it was ITV?

The 41 community-owned stations averaged 62.9 hours of broadcasting during the week, with 64% general programming (40.3 hours per week) and 36% ITV (22.6 hours per week).

How much weekend broadcasting was there?

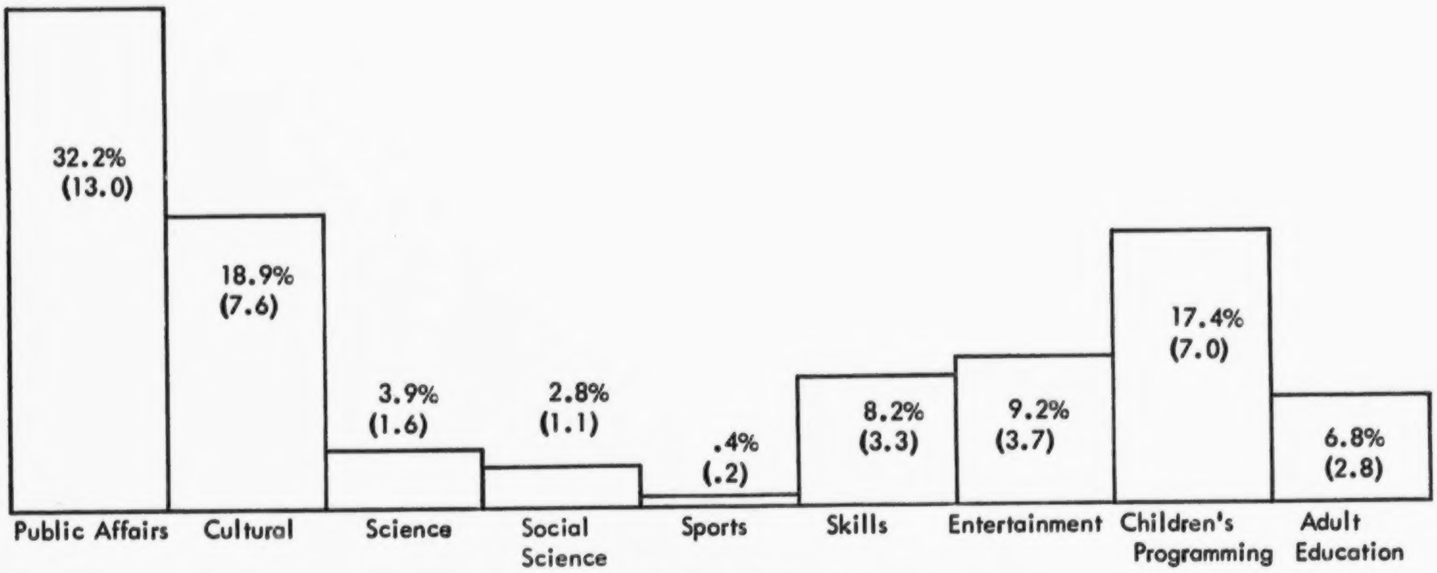
Among the community-owned stations, 5.8% of the broadcast hours were on Saturday, and 9.6% on Sunday.

How much color broadcasting was there?

Of the total hours of programming, 7.8% were in color.

General programming—what subject areas were given what share of the scheduling?

Almost two-thirds of the community-owned stations' total hours were devoted to general programming, with public affairs receiving the largest share of those hours.

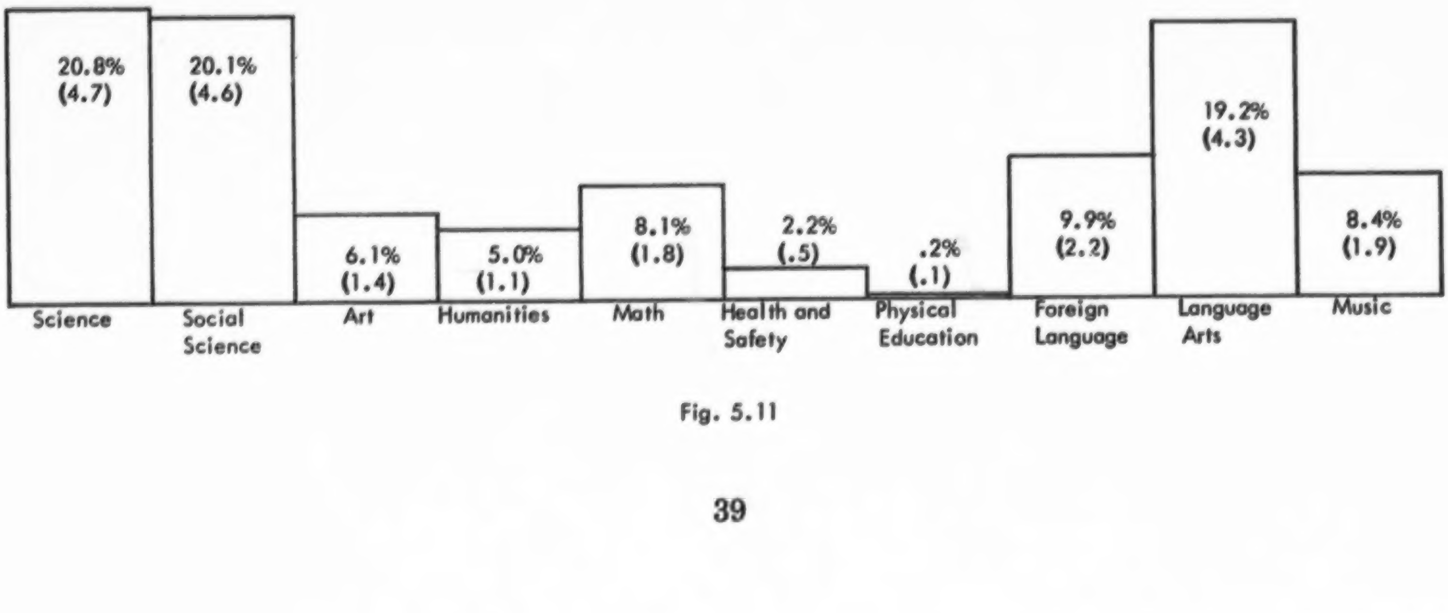

General Programming Hours by Community-Owned Stations

Figures in ( ) indicate average hours per station

Fig. 5.10

ITV—What share of the scheduling were different subject areas given?

Science, social science and language arts had the most ITV hours devoted to them.


ITV Hours by Community-Owned Stations

Figures in ( ) indicate average hours per station

Fig. 5.11

Where were the programs obtained?

NET, accounting for 29.4% of total broadcast hours, was the leading source of programming for the community-owned stations. Just under a fourth of the programming was locally produced.

Sources of All Programming by Community-Owned Stations

Figures in ( ) indicate average hours per station

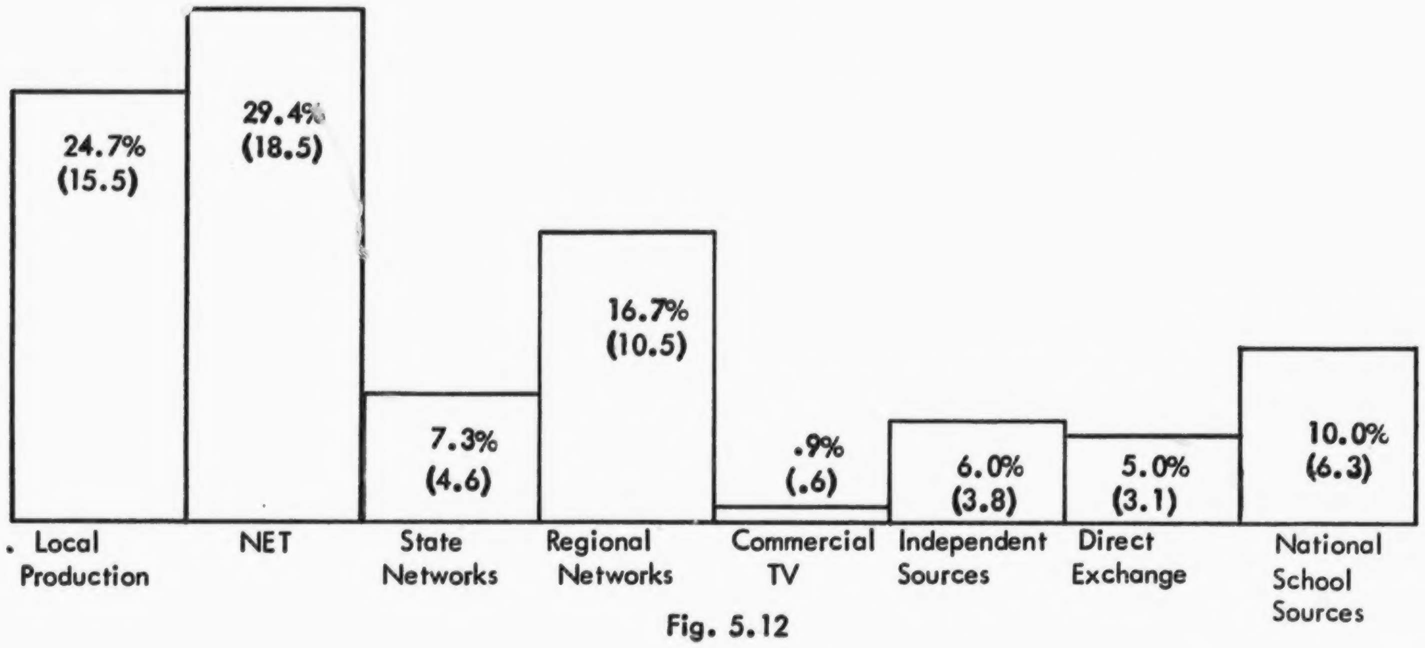


Fig. 5.12

6. ITFS—A SURVEY OF 2500 MHz ACTIVITY

Instructional Television Fixed Service, frequently referred to simply by its general frequency designation of "2500 Megahertz," has been credited with a number of educational advantages. One FCC commissioner recently described it as "a kind of open closed-circuit system" for use by educational institutions in formal instructional situations. Because the broadcasting is of limited power and coverage, up to 31 channels of 10 to 20 miles radius can be provided in a single community.*

A census of existing ITFS broadcasting was attempted for *One Week No. 5,* but information was received from only 24 systems. That represented a majority of the known systems in May 1968, however, so the findings can be regarded as a rather reliable description of actual programming practice.

By November 1968 it was reported that 58 different systems were operating, with a total of 128 channels, and construction permits were outstanding for another 91 systems with a total of 282 channels.**

A. The General Pattern of ITFS Operations

Who owns the ITFS systems?

ITFS was established as a medium for formal instruction, and of the systems included in the *One Week* survey, 78% were school-owned and 22% college-owned.

How was ITFS programming spaced through the week?

ITFS was a weekday operation, with 21 of the 24 systems being on regular five-day schedules. One ITFS system broadcast all seven days of the week, and another reported six days of broadcasting, but only about one hour of the total 681 hours of ITFS programming was transmitted on the weekend.

The broadcasting was spread evenly over the first four weekdays, with less on Friday.

ITFS Program Hours by Day of Week

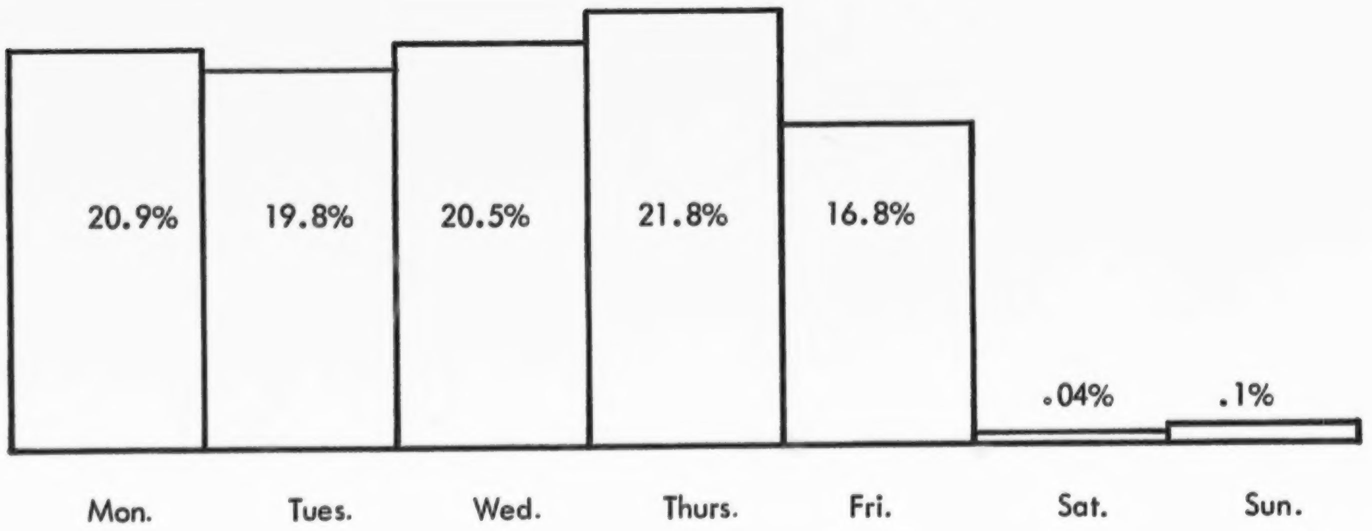


Fig. 6.1

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*Commissioner Robert E. Lee, in address to 61st Annual Convention of the Independent School Association of the Central States, as reported in *ETV Reporter,* Nov. 19, 1968.

***Ibid.*

How much network affiliation was there?

Most of the responding 2500 MHz operations had no network affiliation. Five of the 24 systems reported relationships with networks, but most of those arrangements were informal. In some cases, the ITFS broadcasting was just one phase of operations of an organization also transmitting UHF-VHF programs, and programs obtained from a network for UHF-VHF use were also used on 2500 MHz channels.

How many channels were being used?

The systems were about evenly divided between those broadcasting over one channel, two channels, three channels and four channels during the week. As shown below, one of the stations broadcast over five different channels.

Number of ITFS Systems Using Different Numbers of Channels

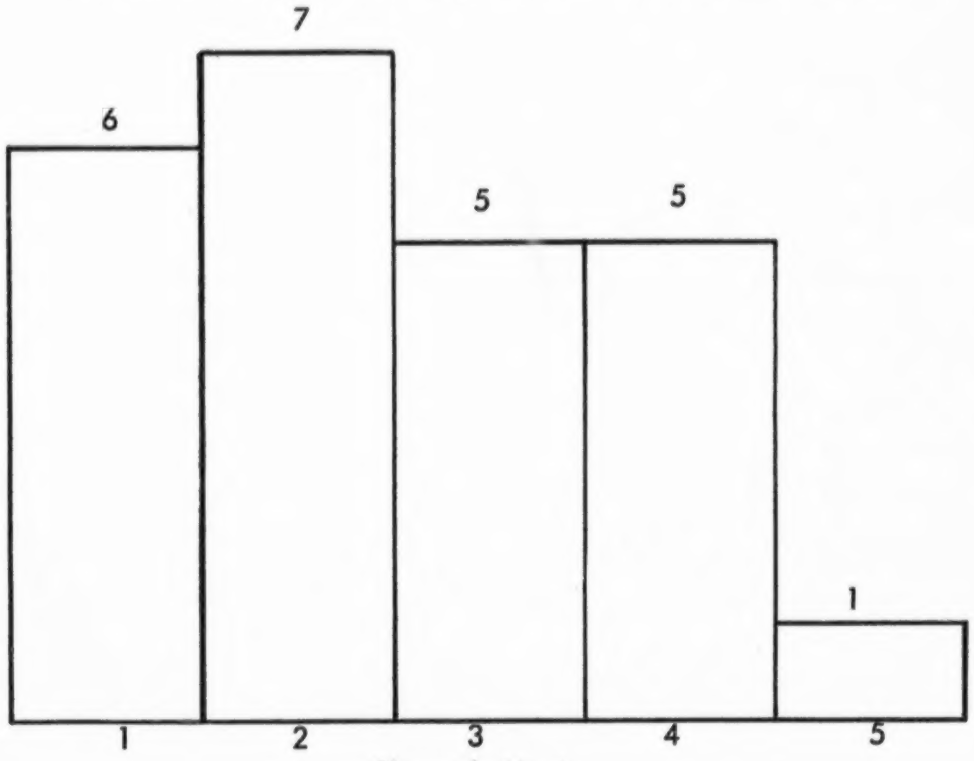


Fig. 6.2

Some authorized channels, which the systems were capable of using, were not actually employed during the week in May. The table below shows actual utilization of channel capacity:

ITFS Channel Capability and Actual Channel Utilization

No. of Channels	No. of Systems Actually Broadcasting on That Many (or more) Channels	No. of Systems Capable of Broadcasting on That Many Channels
1	24	24
2	18	21
3	11	16
4	6	12
5	1	2
9	0	1

Fig. 6.3

Color—how much in ITFS broadcasting?

Five of the ITFS systems were capable of transmitting color, and 5% of the total hours of broadcasting were in color. None of the systems was capable of local color production.

Two of the 24 systems had color film chains, and one of those also had color video tape equipment. By 1970, 10 expected to have color film chains, and 9 expected to have color video tape equipment. By 1975, 19 expected to have color film chains, and 20 expected to have color video tape equipment. Whereas no system was capable of color production in 1968, six expected to have that capability by 1970 and 18 of the 24 expected it by 1975.

What changes in programming or facilities did the ITFS systems anticipate in the next year?

Eighteen of the 24 responding operations indicated major changes were expected. Leading the list were added programming (11) and new equipment (7).

How many students were served by ITFS?

Eighteen of the 24 systems participating in the ITFS survey provided estimates of students served during the school year, and summing these produced a total of 418,000. Seventeen of the stations (one less than responded to the above question) provided estimates of student course-enrollments, and the sum of these was 888,400. The mean average station estimate was 23,200 students and 52,100 course enrollments for the school year. Each student served by ITFS thus received an average of just over two courses that way. Some of the stations did not report enrollments or number of students reached because they did not feel able to provide satisfactory estimates. Because of these exclusions and because all 24 stations represent only a sample of the ITFS systems, the averages given above must be regarded as only rough approximations.

How much did the average 30-minute locally-produced program cost?

Program Directors were asked to exclude recording and transmission costs when making estimates.

Estimates from 16 of the ITFS systems ranged from a low of $10 to a high of $1000, with a mean average of $220. Only two college-owned systems reported program costs, one the $1000 figure and the other $280. The mean average cost for the school-owned ITFS systems was $116, and the median cost was almost the same, $112.

What was the average ITFS system's programming budget?

Seventeen of the systems reported annual programming budgets, and they ranged from $5,400 to $100,000, with the mean average being $42,000. The two college-owned systems were in the middle of the range on this measure, with a mean average budget of $40,000. The school-owned stations had a mean average budget of $45,100, and a median budget of $50,000.

What assessments were made to support the ITFS programming?

Only 10 of the 24 systems reported special assessments made to support programming. Of those,
- 5 reported a set per-pupil assessment,
- 1 reported a per-pupil assessment with the rate varying, and
- 4 reported other kinds of special assessments to support the programming.

Of the six systems reporting per-pupil assessments,
- 2 charged between 75¢ and 99¢,
- 3 charged between $1 and $1.99, and
- 1 charged $3 or more.

How did systems help with ITFS program utilization?

Exactly half the systems, or 12, reported planning some workshops for teachers when need became apparent. Seven planned regular workshops for all teachers whose students used ITFS programming, while three had no workshops at all.

Thirteen of the systems scheduled staff visits to schools as requested, or when a need was felt. Eight scheduled such staff visits regularly, while two never had staff members visit schools.

Thirteen of the 24 systems had, during the past year, conducted general dissemination meetings for staff from involved schools.

Almost all the ITFS systems (22 of 24) issued teachers' manuals for use with the programming, and 15 made other material available.

How was ITFS programming expanded?

With a service so new as ITFS, it is not surprising that most systems expanded in the previous two years. Many actually originated in that period.

Among the 24 systems,

18 were offering courses for additional grades not served two years before,
15 were transmitting to schools not served two years before, and
21 were offering courses not offered two years before.

What subjects were taught on ITFS?

Social science and science were the subjects most taught on ITFS.

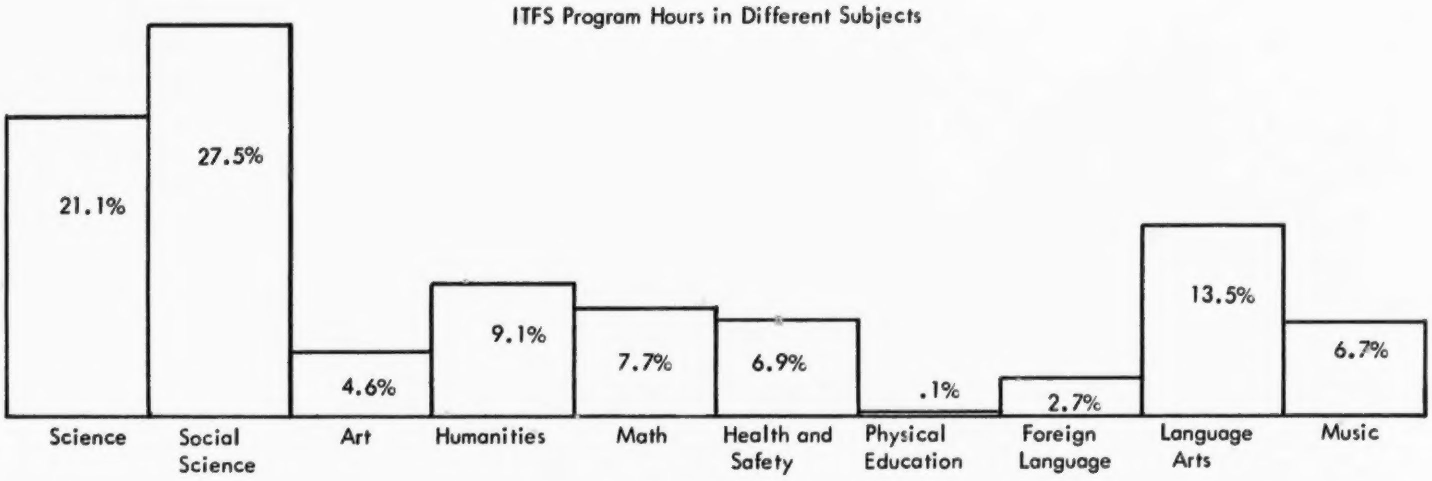


Fig. 6.4

How much ITFS programming was used at the different levels of education?

Junior high was the level where the most ITFS was used.

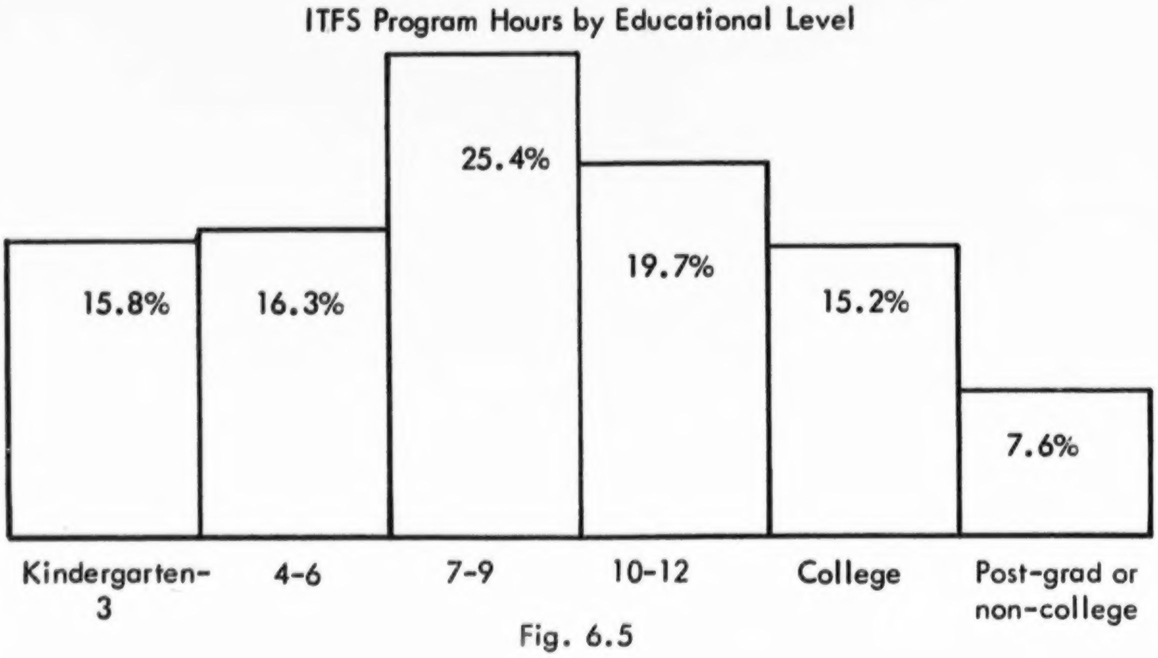


Fig. 6.5

What was the average length of ITFS lessons?

Mean average lesson length ranged upward from 18 minutes in the lowest grades to 52 minutes in college.

Length of ITFS lesson by Educational Level

	average minutes per lesson
Kindergarten-3	18
4-6	19
7-9	25
10-12	25
College	52
Post-grad or non-college	29

Fig. 6.6

The longest average length was that of health and safety lessons, the shortest that of art lessons.

Length of ITFS Lesson by Subject Matter

	average minutes per lesson
Health and Safety	42
Math	25
Social Science	24
Language Arts	23
Humanities	23
Music	22
Science	21
Foreign Language	19
Physical Education	18
Art	17

Fig. 6.7

The Sources of ITFS Programming

Where did the systems obtain the programs?

More than half the program hours were produced locally, which must remind seasoned educational broadcasters of the early days of VHF instructional programming. Except for a combination category, no other source accounted for any sizable proportion of the broadcasting.

Sources of ITFS Program Hours

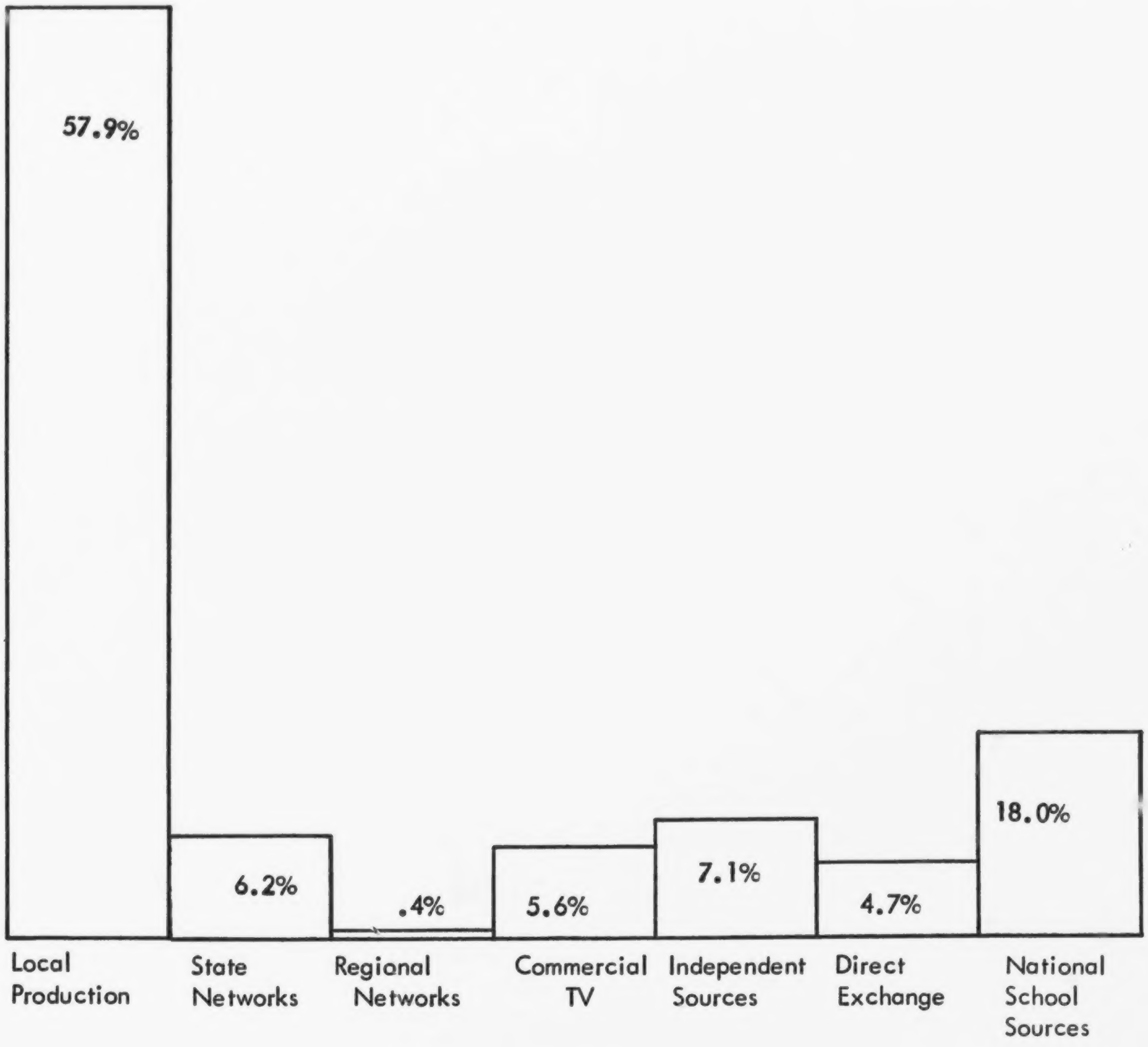


Fig. 6.8

Seventeen of the 24 systems reported that they had, during that school year, picked up programs for immediate or delayed use directly from the broadcasting of a commercial TV station. Nine ITFS systems had picked up programs directly from the broadcasting of an ETV station.

In what form were the programs obtained?

Video tape was the form in which more than 70% of the ITFS programming was obtained.

ITFS Program Hours Obtained in Different Forms

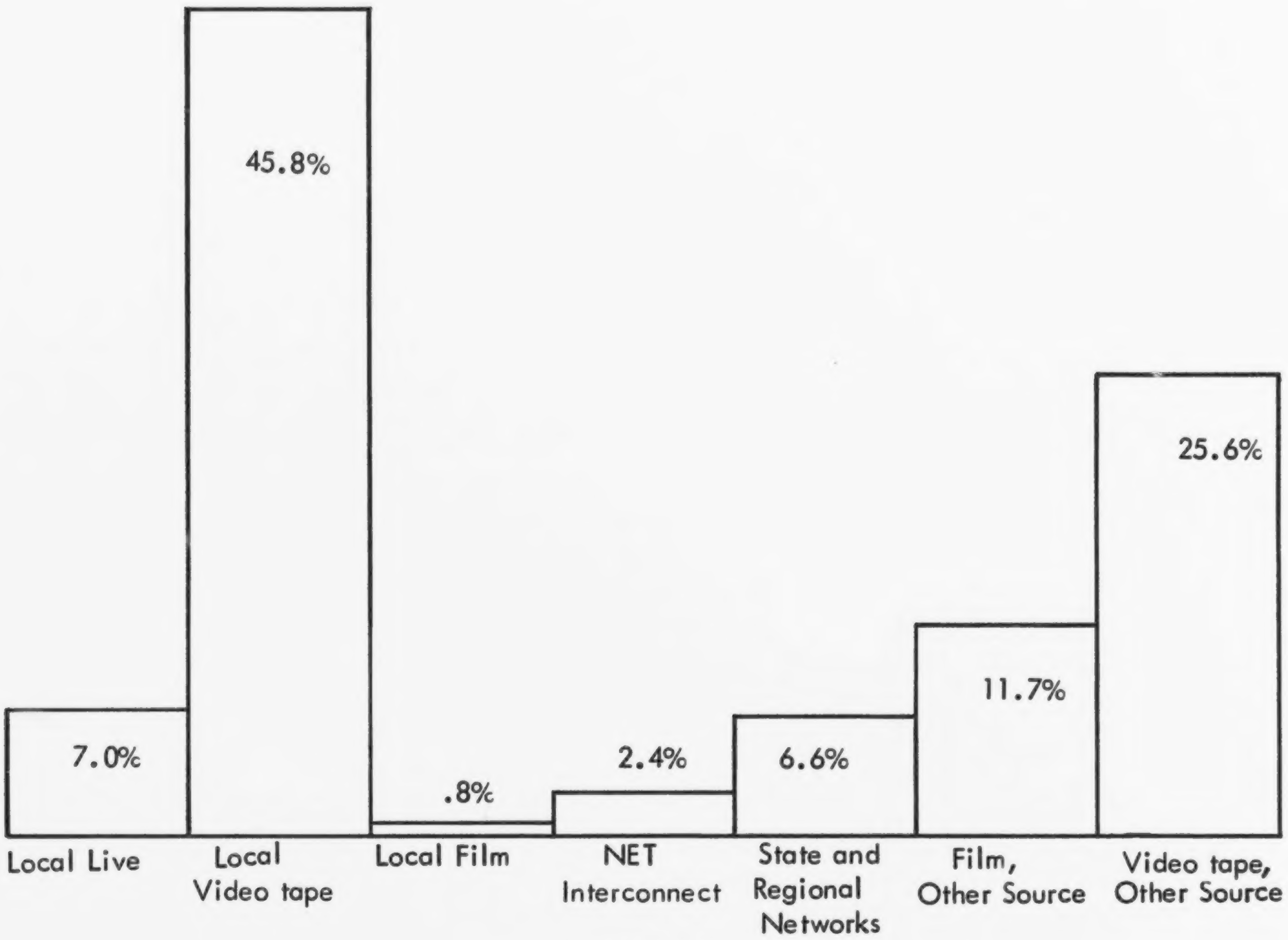


Fig. 6.9

7. CLOSED-CIRCUIT TELEVISION—A SURVEY

A random sample of known CCTV systems was selected, and programming information was received from 44 of the 88. The sample was selected to represent 1/7 of the CCTV systems in the United States, and thus detailed programming information was received on roughly 1/14 of the CCTV in the country.

While a random sample of 1/14 can produce highly reliable estimates, especially when the population is of reasonable size, in this survey the sample was not truly random. Half the potential respondents chose not to participate. (Some evidence indicated that non-response was linked to operating only a few hours a week, with little planned programming and less staff.) At any rate, the information presented here should be considered to be only an approximation of CCTV programming practices in 1968.

A. The General Pattern of CCTV

Who owns the CCTV operations?

Almost all the systems surveyed were owned either by schools or colleges, but this was to be expected because the operations included in the survey were drawn from the NEA's listings of educational institutions which were using CCTV. The sampling is discussed in the "Methodology" section of this report (See Appendix I.). So while business and industry undoubtedly were using closed-circuit television for instructional purposes, the *One Week* survey was limited to educational institutions.

Of the 44 CCTV operations surveyed,
22 were college-owned,
17 were school-owned,
2 were state-owned,
1 was municipally owned, and
2 did not provide ownership information.

How was CCTV spaced through the week?

The five-day week was the usual scheduling format for CCTV, with 38 of the 44 systems having no weekend programming. One system reported seven days of programming, and five reported six days. Eight systems programmed for fewer than five days, mostly for three or four days.

Of the total program hours, only .1% were on Sunday and 2.5% on Saturday.

CCTV Program Hours by Day of Week

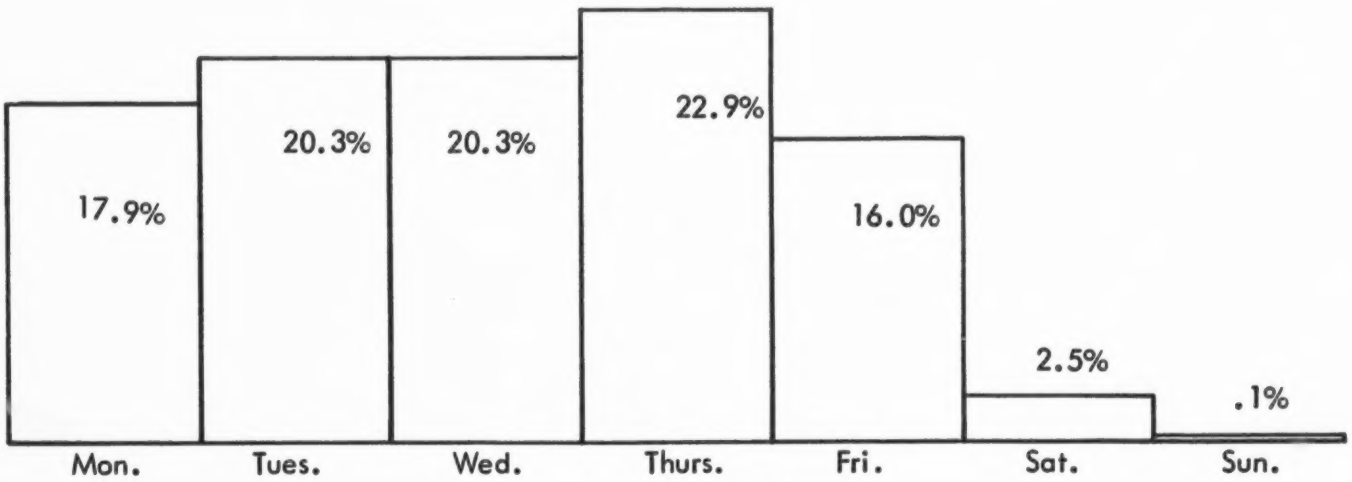


Fig. 7.1

How much network affiliation was there?

Nine of the 44 CCTV operations had some kind of relationship with networks to help them obtain programming. A number of others reported affiliation with regional or area advisory organizations which did not provide any programming.

How many channels were being used?

Most of the CCTV operations actually used either one or two channels during the survey week. The maximum number of channels employed was eight.

Number of CCTV Systems Using Different Numbers of Channels

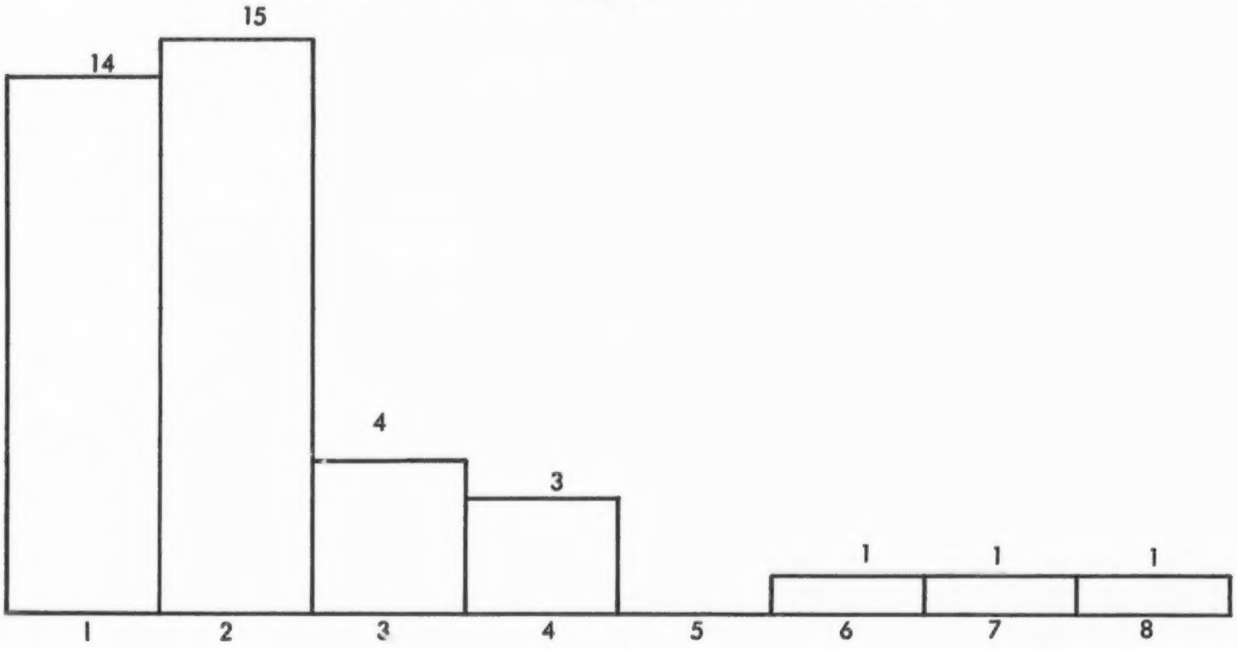


Fig. 7.2

Some channels, which the CCTV systems were capable of using, were not actually employed during that week in May. The table below indicates actual utilization of channel capacity:

CCTV Channel Capability and Actual Channel Utilization

No. of Channels	No. of Systems Actually Programming on That Many (or more) Channels	No. of Systems Capable of Programming on That Many Channels
1	39	39
2	25	30
3	10	22
4	6	17
5	3	9
6	3	5
7	2	3
8	1	3
9	0	2

Fig. 7.3

Color—how much in CCTV programming?

Nine of the 44 CCTV systems were capable of transmitting color, but less than 1% of the program hours were in color. Two systems were capable of local production in color. Three had color video tape equipment and a color film chain.

Twenty-one of the systems expected to have color video tape equipment by 1970, and 19 expected to have a color film chain by then. Thirty-four expected to have color video tape equipment by 1975, and 33 expected to have a color film chain by then.

In contrast to the two systems capable of local color production in 1968, 10 expected to have that capability by 1970 and 29 by 1975.

What changes in programming or facilities did the CCTV systems anticipate in the next year?

Among the sample of 44 CCTV systems, 33 listed some major change expected. Leading the list were added programming (9), additional video tape recorders (8), and transmitting over additional channels (6).

How many students were served by CCTV?

Twenty-eight of the 44 sampled CCTV systems provided estimates of students served during the school year, and summing these produced a total of 179,900.

Thirty of the operations provided estimates of student course-enrollments, and the sum of these was 402,700. Thus the mean average number of students served was 6,400 per CCTV system, and the mean average total course-enrollment was 13,440 per CCTV system, but these figures may be misleading. Almost two-thirds of total students served and total course enrollments were reported by one large closed-circuit system—the Delaware ETV Network. If we exclude that operation, with its unique mandate to serve every schoolchild in the state, we have this more representative description: The mean average number of students served was 2,500, the mean average course enrollment was 5,200.

How much did the average 30-minute locally produced CCTV program cost?

Program directors were asked to exclude recording and transmission costs when making estimates.

Eighteen of the CCTV systems provided estimates of locally-produced program cost, and these ranged from $17 to $600. The mean average 30-minute cost was $180, with the systems owned by schools reporting average costs of $206 and the college systems reporting average costs of $173.

What was the average CCTV system's programming budget?

Twenty-two of the CCTV systems reported their annual programming budgets, and these ranged from $350 to $350,000, mirroring the great range in number of students served. The annual programming budget of the average school-owned operation was $23,900, and that of the average college-owned operation $22,200.

What assessments were made to support CCTV programming?

Ten of the 44 systems had some kind of special assessments made to support their programming, with four of these operating with a set per-pupil fee. For those four, the set fees ranged from under 25¢ to over $3.

How did CCTV systems help with program utilization?

Most systems conducted workshops for teachers on an as-needed basis. Twenty-three of the reporting CCTV systems did that, while three planned regular workshops so that each teacher using any of the programming would be involved. Thirteen reported no workshops at all, but that category must include situations where the teacher, director and producer are one and the same person, and scheduling a workshop to get the different parties together would hardly be reasonable. This informal nature of some CCTV operations should be kept in mind in interpreting the following, too.

Eight systems scheduled regular staff visitations to schools, 16 scheduled them on an as-needed basis, and 12 never scheduled them. (The other eight systems did not provide information on this item.

Because some systems did not provide information on other aspects of utilization assistance, the categories in the following items also do not add to 44.)

Fourteen systems had conducted a dissemination meeting in the previous year for staff from schools using the programming, while 17 had not.

Half of those reporting, 21 of 42, issued regular program guides, and 16 made teachers' manuals available while 17 did not. Fourteen reported making some other material available for use with the programming, while 21 did not.

How had CCTV been expanded?

Considerable expansion in the previous two years was reported, as shown below. Of 39 CCTV systems providing information on expansion,

22 were offering courses for additional grades not served two years before,
19 were providing programming to schools not served two years before, and
25 were offering courses not offered two years before.

What subjects were taught with CCTV?

Social science and science, as was the case with ITFS and UHF-VHF broadcasting, were the most-offered subjects.

CCTV Program Hours in Different Subjects

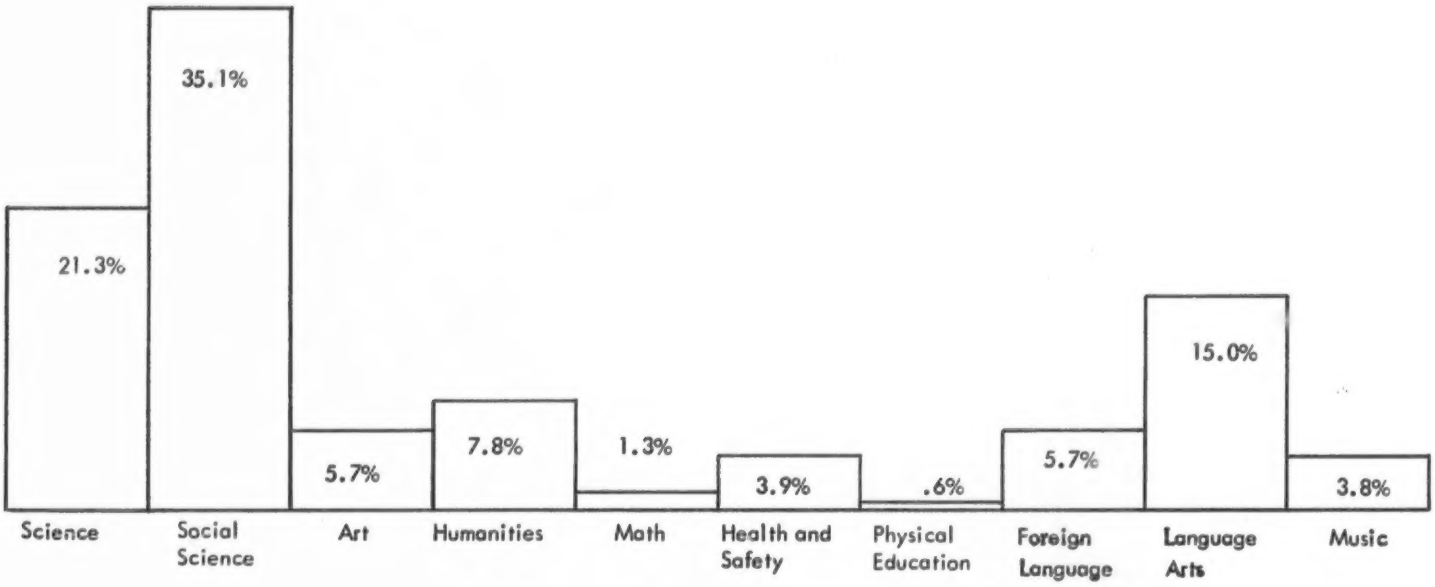
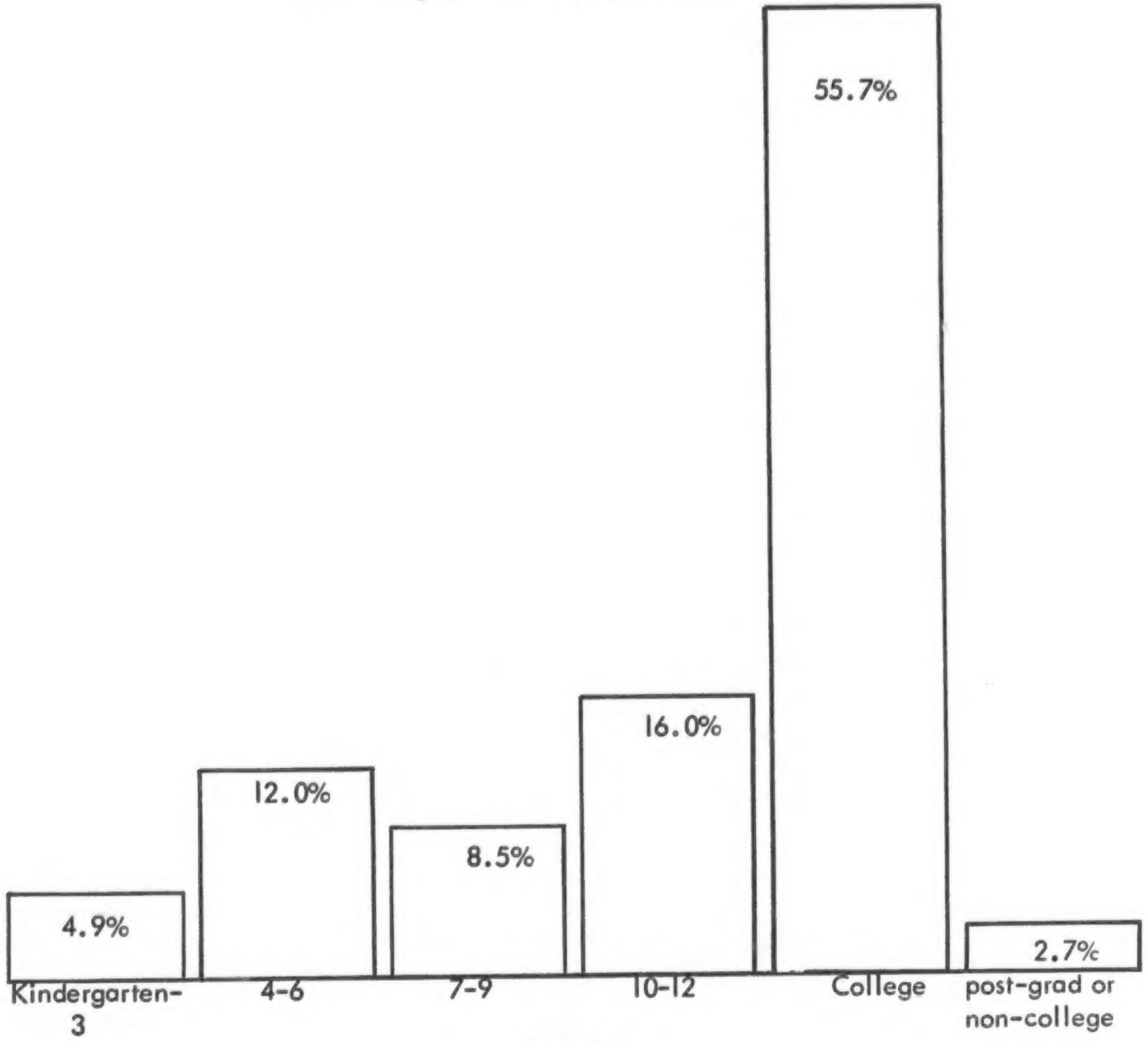


Fig. 7.4

How much CCTV was used at the different levels of education?

Most CCTV was used in colleges, in contrast to the concentration of ITFS at the lower age levels of education.



CCTV Program Hours by Educational Level

Fig. 7.5

What was the average length of CCTV lessons?

Mean average lesson length ranged upward from 16 minutes in the lowest grades to 46 minutes in college.

Length of CCTV Lessons by Educational Level

	average minutes per lesson
Kindergarten-3	16
4-6	19
7-9	24
10-12	29
College	46
Post-grad or non-college	33

Fig. 7.6

The longest average length was that of humanities lessons, the shortest that of art lessons.

Length of CCTV Lesson
by Subject Matter

	average minutes per lesson
Humanities	44
Health and Safety	38
Social Science	37
Music	29
Language Arts	29
Math	28
Science	27
Physical Education	25
Foreign Language	20
Art	18

Fig. 7.7

The Sources of CCTV Programming

Where did the programs come from?

More than two-thirds of the program hours were a result of local production.

CCTV Program Hours from Different Sources

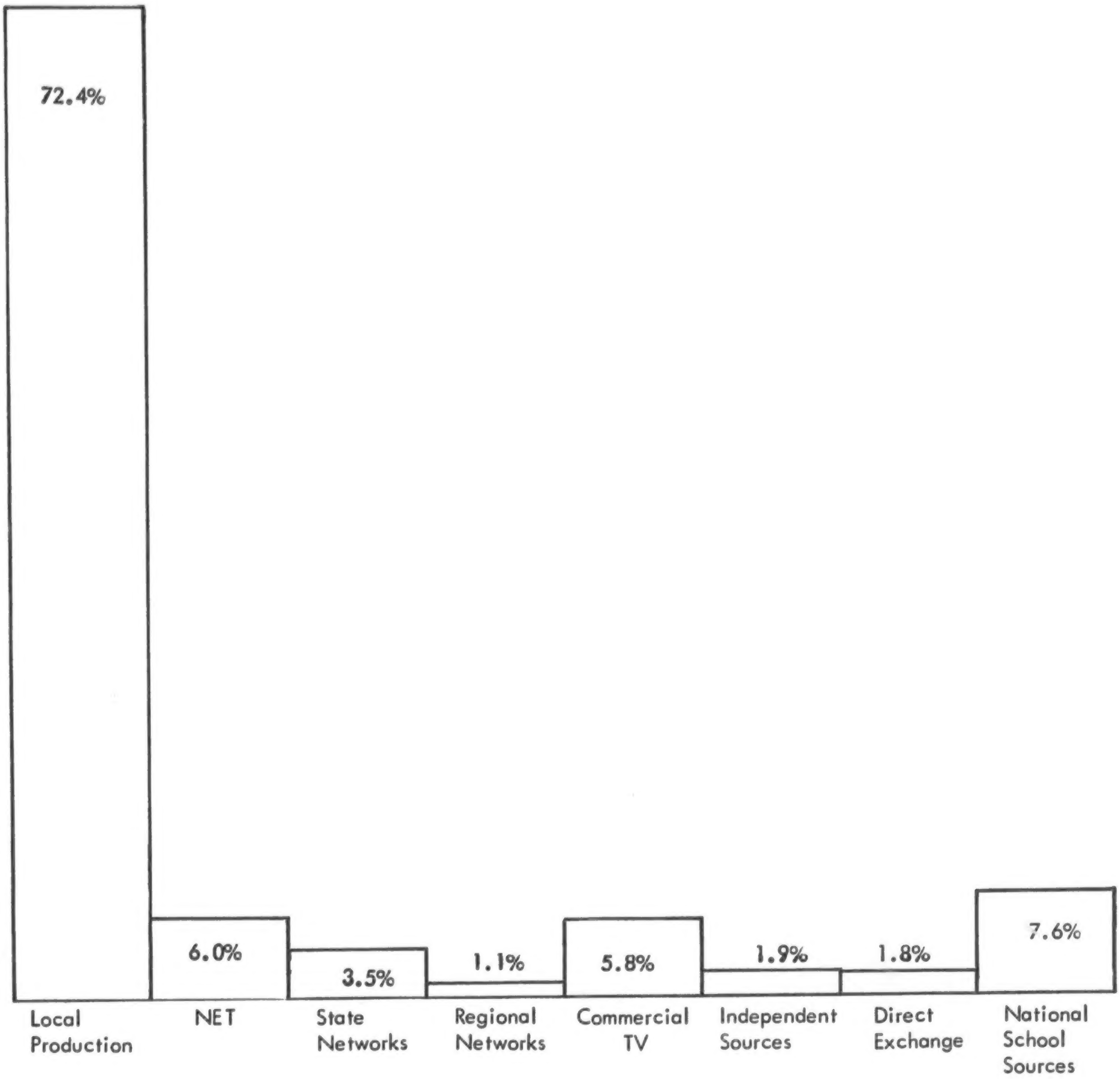


Fig. 7.8

Twenty-six of the 44 systems reported that they had, during that school year, picked up programs for immediate or delayed use directly from the broadcasting of a commercial TV station. Twenty-five had picked up programs directly from the broadcasting of an ETV station.

In what form were the programs obtained?

As was the case in ITFS broadcasting, the great majority of CCTV program hours originated from video tape:

CCTV Program Hours Obtained in Different Forms

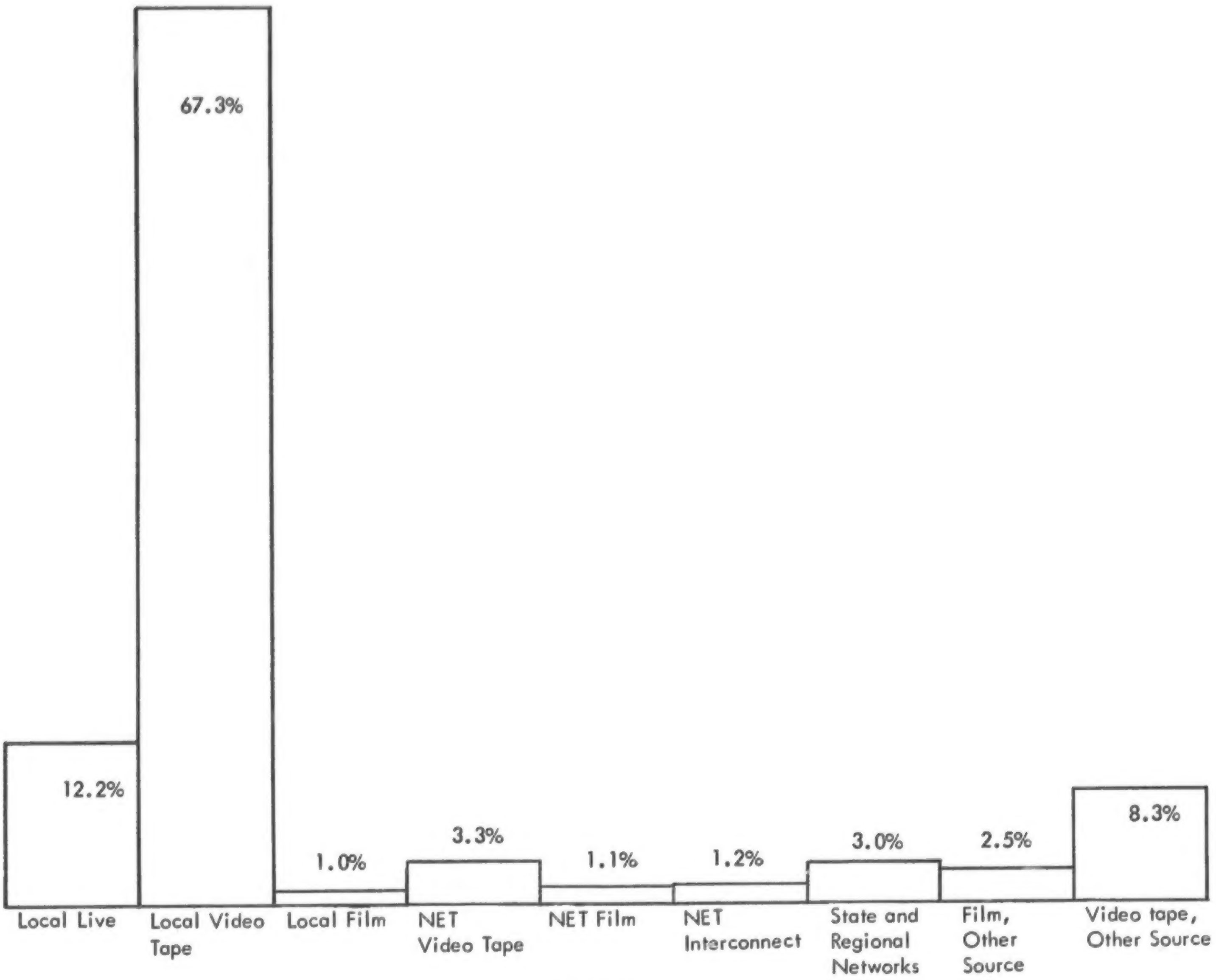


Fig. 7.9

8. UHF-VHF, ITFS AND CLOSED-CIRCUIT PROGRAMMING COMPARED

In this section of *One Week*, the programming of ITFS and closed-circuit systems is compared with the ITV programming of the UHF-VHF stations.

What subjects were taught?

All three systems devoted major shares of their programming to science, social science and language arts, as shown in the Figure 8.1. Some sizable differences in proportions did exist, though, such as:

More social science on closed-circuit,
More math on UHF-VHF, and
More health and safety on ITFS.

ITV Hours Compared by Subject for UHF-VHF, ITFS and CCTV

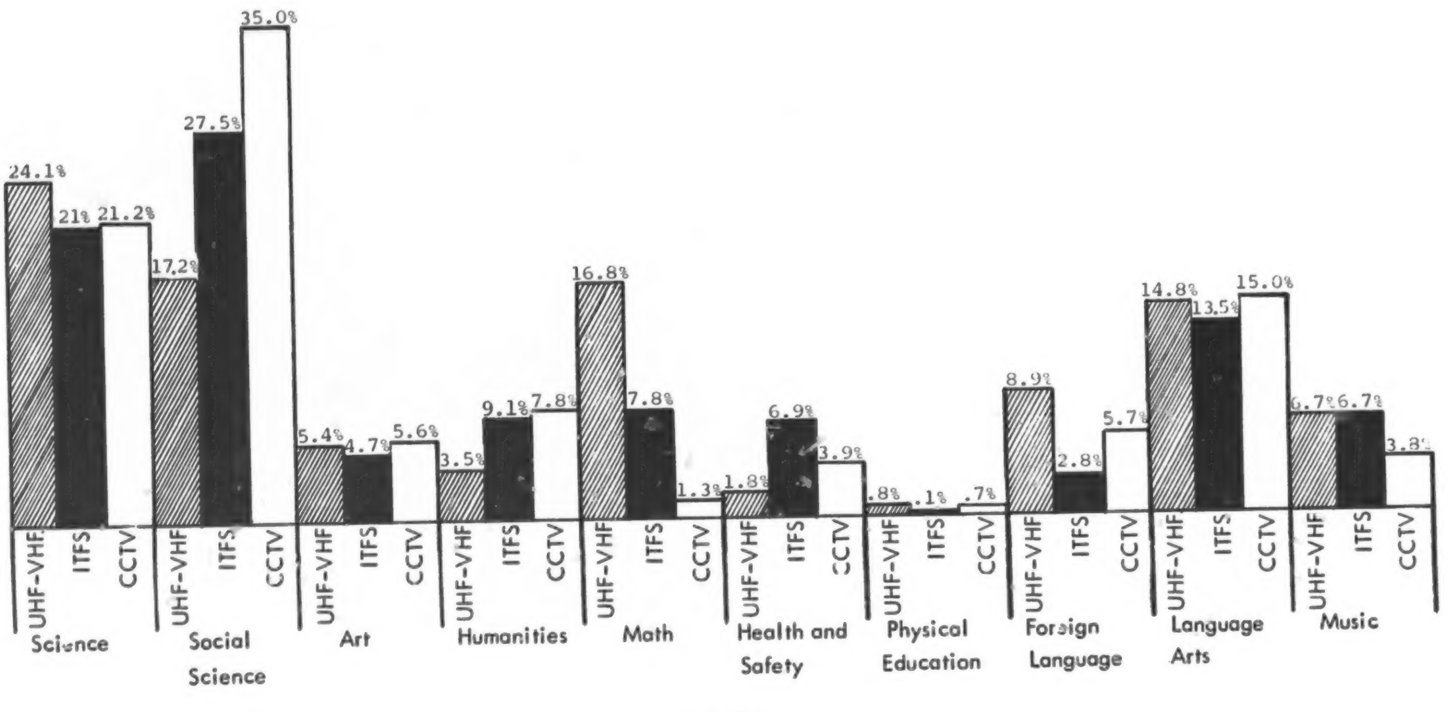


Fig. 8.1

How much programming was devoted to different levels of education?

The majority of the closed-circuit hours were devoted to college-level programming, which was in marked contrast to the situation with UHF-VHF and ITFS broadcasting. (If the measure were viewer-hours, rather than programming hours, closed-circuit systems would not seem to be concentrating so intensively on college programming. As measured here, one hour of Delaware's closed-circuit programming to many thousands of school children was equated to an hour of college-level programming, which might have been seen by fewer than a hundred students.)

ITFS programming was heaviest in the junior high and high school categories, as shown in the following figure, while the ITV of UHF-VHF stations showed some concentration at the 4th-6th grade level.

ITV Hours Compared by Educational Level for UHF-VHF, ITFS and CCTV

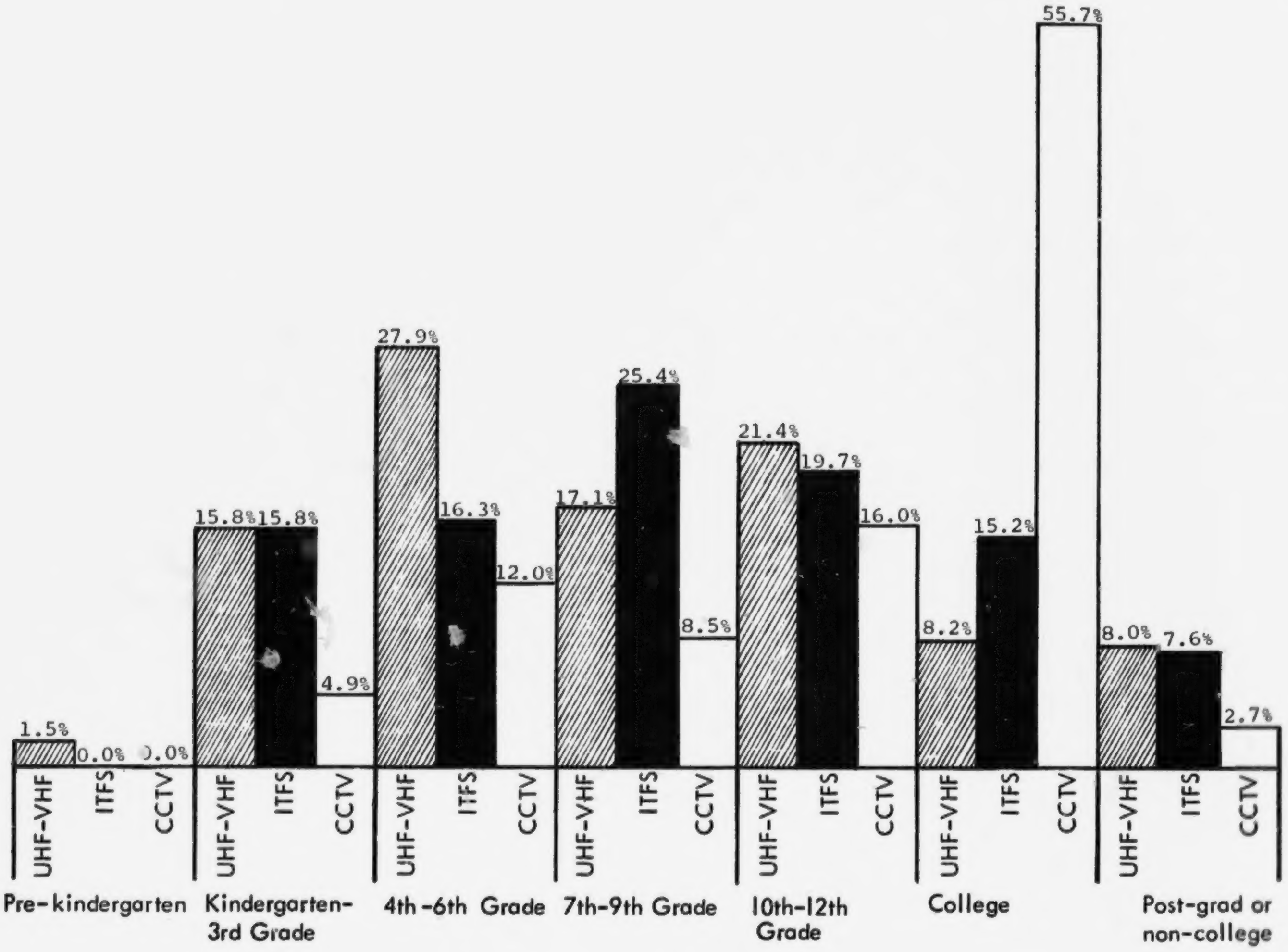


Fig. 8.2

2

Where were the programs obtained?

The UHF-VHF stations depended heavily on state networks for their ITV programming, as shown in the following figure. In contrast, close to 60% of the ITFS programming was produced locally, and more than 70% of the closed circuit programming was produced locally.

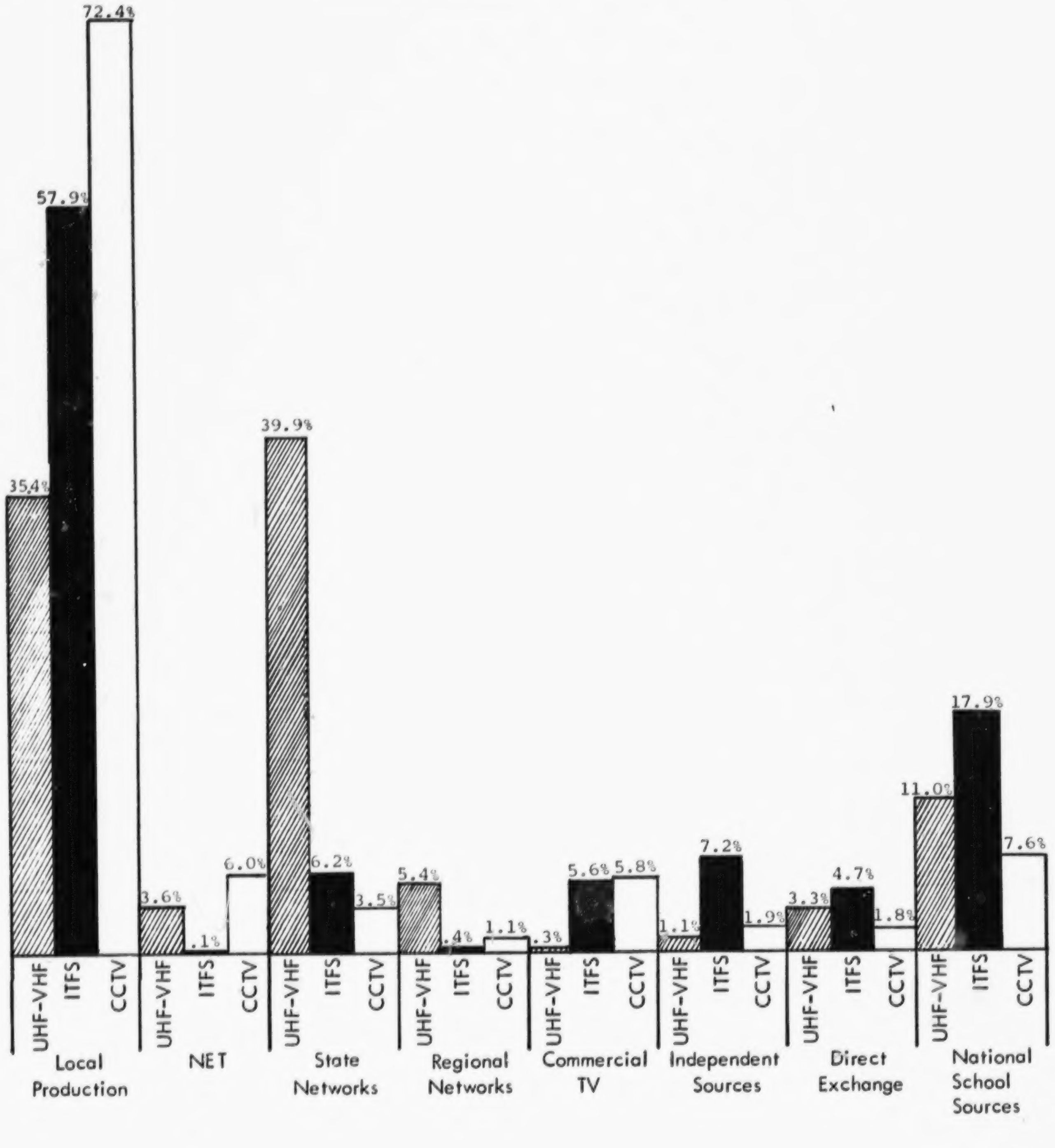

Source of ITV Hours for UHF-VHF, ITFS and CCTV

Fig. 8.3

In what form were the programs obtained?

The three kinds of operations showed no major differences in the proportions of programming obtained in different forms. The ITFS stations did present less local live production, as shown in Figure 8.4. And closed-circuit systems used considerably more video tape held locally, but used proportionately less video tape from other sources.

ITV Hours Obtained in Different Forms by UHF-VHF, ITFS and CCTV

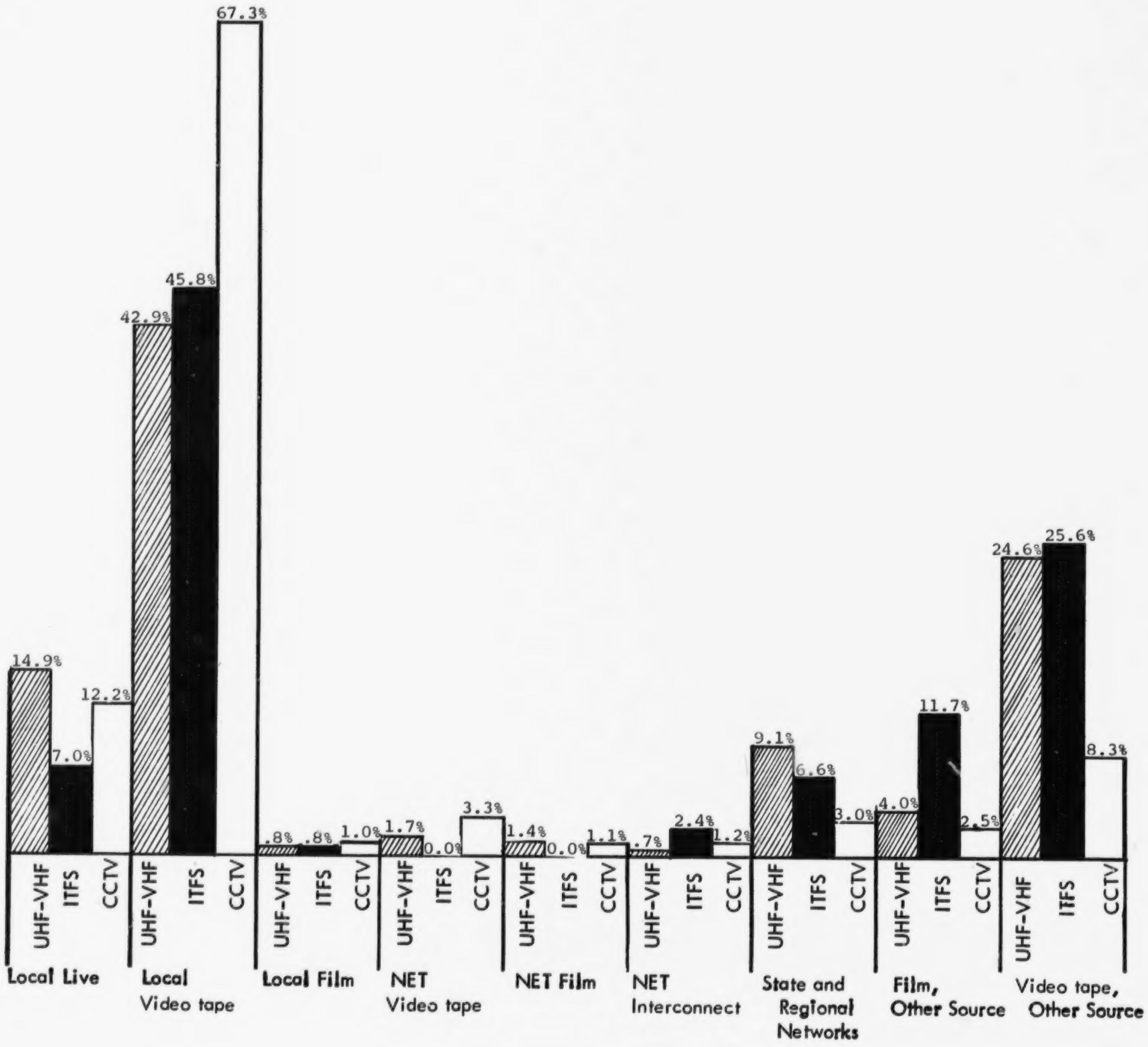


Fig. 8.4

APPENDICES

Appendix I

A DISCUSSION OF METHODOLOGY

The ambitious goal of *One Week No. 5* was to obtain 49 measures on the operation of each educational UHF-VHF station and 17 measures on each program broadcast during the week of May 6-12, 1968. That same census approach was used with ITFS stations but, because of the large number of closed-circuit systems, a random sample of them was chosen and surveyed.

The week of May 6-12 was selected so that results would be comparable with results of the previous surveys, which always have been conducted late in the spring, but not so late as to risk the possibility of stations starting their summer broadcast recesses.

NET and the FCC helped identify all operating UHF-VHF ETV stations, and the NEA's *A Survey of Instructional Closed-Circuit Television** was used to identify ITFS and closed-circuit systems.

Questionnaires were mailed out two weeks before the survey period to the program directors of all UHF-VHF ETV stations, all ITFS systems, and the random sample of closed-circuit systems. Of the 153 UHF-VHF stations, 152 participated in the survey. Of the 38 ITFS systems thought to be operating, questionnaires were returned by 24. Of the random sample of 88 closed-circuit systems, questionnaires were returned by 44. It developed that a good many of the 88 were temporary experimental systems which, for one reason or another, were not operating during May 1968, so the return rate was not considered discouragingly low.

In addition to answering the 49 questions on general station operation, each program director was asked to code each program in 17 ways, in order to indicate such items of information as time of broadcast, duration, source, subject and audience. This was an arduous task, and ETV station personnel—considering the circumstances—were exceedingly gracious about doing the coding. The advantage of the approach was that many of the coding decisions were such that only station personnel could make them. And also, because of the great amount of information sought, it would have been difficult to finance or conduct the *One Week* census in any other way. (There were over 18,000 programs broadcast by UHF-VHF stations, not counting the ITFS and closed-circuit programs.)

When the questionnaires were returned, the station information sheets were coded and the data keypunched. The program information sheets—which had been coded by station personnel—were edited, and then keypunched.

As a result of this year's coding process, in which station personnel made most of the decisions as to how a program should be classified, more programs were put in the miscellaneous category termed "other." Spot checks did not reveal any major organizing principles for the programs classified as "other," which suggested that no important categories had been omitted from the alternatives provided to the program directors. Indeed, "other" seemed to serve as a default category, and later, in the process of programming, cases of "missing data" were assigned to that classification. To make the results of different surveys in different years comparable, this procedural variation was controlled for, so that the percentages reported are in all cases based on specifically described programming.

Fortran was chosen as the programming language because of the relatively slow-compile, fast-execute characteristics of one of the versions available at Stanford. This was appropriate in a situation where a great mass of data (13 boxes of IBM cards) was to be processed only once.

Details on each participating station's programming were to be presented in a separate report, *Individual Station Data, One Week of ETV No. 5.* One copy of this was to be sent to each participating station, and additional copies will be available from ERIC at Stanford and from NIT, Box A, Bloomington, Indiana, while supplies last.

Those readers wishing to obtain an up-to-date list of all ETV station licensees and grantees, with ownership classifications, should contact Educational Broadcasting Branch, FCC, Washington, D. C. 20554; or ETS Division, NAEB, 1346 Connecticut Avenue, N. W., Washington, D. C. 20036.

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*Wigren, Harold E., Henry T. Ingle and Michael Molenda, Division of Audiovisual Instruction, National Education Association of the United States, Washington, D.C.—1967.

Appendix II

CLOSED-CIRCUIT SYSTEMS SURVEYED

State	*City*	*Name of School, Institution, Agency*
Arizona	Tucson	Palo Verde High School
California	Campbell	Campbell Union High School District
	Fresno	Fresno State College
	Lennox	Lennox School District
	San Bernardino	San Bernardino Valley College
	San Jose	San Jose State College
Colorado	Denver	University of Colorado Medical Center
	La Junta	La Junta Public Schools
Connecticut	Darien	Darien Public School System
Delaware	Dover	Delaware ETV Network
Florida	St. Petersburg	St. Petersburg Junior College
Illinois	Harvey	Thornton High School
	Peoria	Bradley University
	River Forest	Concordia Teachers College
Indiana	Marion	Marion Indiana Community Schools
Kansas	Pittsburg	Kansas State College
Louisiana	New Orleans	Louisiana State University Medical Center
Massachusetts	Framingham	Winchester Park Junior High School
Michigan	Ann Arbor	University of Michigan
	Marquette	Northern Michigan University
Minnesota	Marshall	Independent School District #413
Missouri	Kirksville	Kirksville Public Schools
	Warrensburg	Central Missouri State College
	West Plains	West Plains Public Schools
Nebraska	Lincoln	University of Nebraska
	Omaha	Creighton University
New Jersey	Morristown	Morristown ETV
New York	Elmira	Community Cable System
	Greene	Greene Central School
	Morrisville	SUNY Agricultural and Technical College
	New York	Columbia University School of Dental & Oral Surgery
	Penn Yan	Penn Yan Central Schools
	Williamsville	Williamsville Central Schools
Ohio	Athens	Ohio University
	Kent	Kent State University
Pennsylvania	Philadelphia	Temple University
	University Park	Pennsylvania State University

State	*City*	*Name of School, Institution, Agency*
Texas	Austin	Texas Educational Microwave Project
	Lubbock	Texas Technological College
	San Antonio	Texas Educational Microwave Project
Utah	Provo	Brigham Young University
Vermont	Burlington	Medical Center Hospital of Vermont
Virginia	Richmond	Union Theological Seminary
Washington, D.C.		Georgetown University Medical School

Appendix III

ITFS SYSTEMS SURVEYED

State	*City*	*Name of School, Institution, Agency*
Alabama	Huntsville	Huntsville Public Schools
California	Fresno	Fresno County Department of Education
	San Francisco	University of California Medical Center
Florida	Fort Lauderdale	Broward County Board of Public Instruction
	Miami	Diocese of Miami
	Miami	Dade County Public Schools
Georgia	Atlanta	Community Medical Television System
Illinois	Pekin	Bradley University
	Peoria	Bradley University
	Sterling	Sterling Township High School
	Winnetka	New Trier Township Instructional TV System
Michigan	Alpena	Alpena Board of Education
Minnesota	Osseo	District 279
Missouri	Columbia	University of Missouri
New York	Brooklyn	Brooklyn Diocesan TV System
	Franklin Square	Central High School District #2
	Mineola	Union Free School District #10
	Newburgh	Newburgh City School District
	N. Massapequa	Plainedge Schools
	Plainview	Central School District #4
Ohio	Parma	Parma Board of Education
Texas	Freeport	Brazosport Independent School District
	Mesquite	Mesquite Independent School District
	San Antonio	Edgewood Independent School District

Appendix IV

TABLE 1
UHF-VHF Educational Television Stations: 1961-68

	1961	1962	1964	1966	1968
Number of stations	56	62	88	115	153*
Total weekly broadcast hours	2186	2596	3715	5688	8534
Average broadcast hours per week per station	39.0	41.9	42.3	49.5	56.1
Total weekly hours general programming	1431	1396	1992	3248	4671
Average weekly general programming hours per station	25.6	22.5	22.6	28.2	30.7
% of total hours in general programming	65.5%	54.0%	54.0%	57.5%	55.0%
Total weekly hours ITV programming	755	1200	1723	2440	3863
Average weekly ITV hours per station	13.8	19.3	19.6	21.2	25.4
% of total hours in ITV	34.5%	46.0%	46.0%	42.5%	45.0%

*152 stations reporting

TABLE 2
UHF-VHF Local Production Patterns: 1962-1968

	1962	1964	1966	1968
Total hours	2596	3715	5688	8534
Total hours of local production	1340	1372	1529	1993
% of total hours locally produced	52.0%	36.9%	26.9%	23.4%
General programming hours locally produced	405	404	494	626
% of general programming hours locally produced	29.0%	20.3%	15.2%	13.4%
ITV hours locally produced	935	968	1035	1367
% of ITV hours locally produced	77.9%	56.2%	42.4%	35.4%

TABLE 3
UHF-VHF Program Sources: 1968

	Total hours		General Programming		ITV	
	Hours	%	Hours	%	Hours	%
Local	1994	23.4	626	13.4	1368	35.4
NET	2222	26.0	2083	44.6	139	3.6
State networks	2041	23.9	500	10.7	1541	39.9
Regional networks	671	7.9	462	9.9	209	5.4
Commercial TV	96	1.1	84	1.8	12	0.3
Independent sources	481	5.6	439	9.4	42	1.1
Direct exchange	295	3.5	168	3.6	127	3.3
National school sources	729	8.5	304	6.5	425	11.0
Total	8529	99.9	4666	99.9	3863	100

TABLE 4

UHF-VHF Program Sources: 1962-1968

(Hours and percent in round numbers)

		Hours				%			
		1962	1964	1966	1968	1962	1964	1966	1968
TOTAL BROADCAST	Local	1340	1364	1510	1994	52	37	27	23
	NET	763	1149	1742	2222	29	31	31	26
	State networks		387	991	2041		10	17	24
	Regional networks		162	287	671		4	5	8
	Others	493	653	1158	1606	19	18	20	19
	TOTALS	2596	3715	5688	8534	100	100	100	100
GENERAL PROGRAMMING	Local	405	405	483	626	29	20	15	13
	NET	685	959	1579	2083	49	48	49	45
	State networks		109	259	500		5	8	11
	Regional networks		106	205	462		5	6	10
	Others	306	413	722	1000	22	22	22	21
	TOTALS	1396	1992	3248	4671	100	100	100	100
ITV	Local	935	959	1027	1368	78	56	42	35
	NET	79	190	163	139	7	11	7	4
	State networks		278	732	1541		16	30	40
	Regional networks		56	82	209		3	3	5
	Others	186	240	436	606	15	14	18	16
	Totals	1200	1723	2440	3863	100	100	100	100

Note: In 1962 the only source breakdowns were local, NET and other. Other sources include film distribution, commercial networks, informal ETV exchange, ETS, the national school sources and others.

TABLE 5
Proportion of UHF-VHF Hours from Different Sources Which Were Repeats

	Total		General Programming		ITV	
	Repeat Hours	%	Repeat Hours	%	Repeat Hours	%
Local	707	35.5	145	23.2	562	41.1
NET	615	27.7	544	26.1	71	51.0
State networks	606	29.7	70	14.0	536	34.8
Regional networks	160	23.8	83	18.0	77	37.1
Commercial TV	15	15.6	15	17.4		
Direct exchange	75	25.4	31	18.5	44	34.9
Independent sources	111	23.1	94	21.4	17	41.1
National school sources	324	44.4	115	37.7	209	49.1
Total	2613	30.6	1097	23.5	1516	39.2

*As shown above, 707 of all locally produced hours, or 35.5%, were repeats. And 145 of the locally produced general programming hours, or 23.2%, were repeats.

TABLE 6
UHF-VHF Program Hours Obtained in Different Forms: 1968

	Total		General Programming		ITV	
	Hours	%	Hours	%	Hours	%
Local live	977	11.4	402	8.6	575	14.9
Local video tape	2054	24.1	397	8.5	1657	42.9
Local film	67	.8	37	.8	30	.8
NET video tape	1756	20.6	1691	36.2	65	1.7
NET film	222	2.6	168	3.6	54	1.4
NET interconnected	172	2.0	145	3.1	27	.7
State & regional networks	809	9.5	458	9.8	351	9.1
Film, other source	551	6.4	397	8.5	154	4.0
Video tape, other source	1926	22.6	976	20.9	950	24.6
Total	8534	100.0	4671	100.0	3863	100.1

TABLE 7
UHF-VHF Programming by Station Ownership: 1968

	Weekly Broadcast Hours			Average Weekly Broadcast Hours			Per Cent of Average Weekly Broadcast Hours		
	Total	General Programming	ITV	Total	General Programming	ITV	General Programming	ITV	Total
School (18 stations)	763	389	374	42.4	21.6	20.8	51	49	100
College (44 stations)	2402	1681	721	54.6	38.2	16.4	70	30	100
State (40 stations)	1900	570	1330	47.5	14.3	33.2	30	70	100
Community (41 stations)	2579	1651	928	62.9	40.3	22.6	64	36	100

TABLE 8
UHF-VHF General Programming by Station Ownership: 1968

	School		College		State		Community	
	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station
Public affairs	28.2 (110)	6.1	24.5 (412)	9.4	17.1 (98)	2.4	32.2 (532)	13.0
Cultural	19.2 (75)	4.2	17.9 (301)	6.8	13.2 (75)	1.8	18.9 (312)	7.6
Science	4.5 (17.5)	1.0	5.9 (99)	2.3	5.9 (34)	.9	3.9 (65)	1.6
Social science	4.5 (17.5)	1.0	4.6 (77)	1.7	3.5 (20)	.5	2.8 (46)	1.1
Sports	1.3 (5)	.3	1.1 (19)	.4	1.4 (8)	.2	.4 (7)	.2
Skills	7.3 (28)	1.5	8.9 (150)	3.4	3.4 (19)	.5	8.2 (136)	3.3
Entertainment	11.1 (43)	2.4	14.3 (241)	5.5	29.2 (166)	4.2	9.2 (152)	3.7
Children's	20.7 (81)	4.5	19.1 (321)	7.3	13.7 (78)	2.0	17.4 (288)	7.0
Adult education	3.2 (12)	.6	3.6 (61)	1.4	12.7 (72)	1.8	6.8 (133)	2.8
Total	100 (389)	21.6	100 (1681)	38.2	100 (570)	14.3	100 (1651)	40.3

TABLE 9
UHF-VHF ITV Programming by Station Ownership: 1968

	School		College		State		Community	
	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station
Science	26.9 (101)	5.6	26.7 (192)	4.4	25.5 (339)	8.5	20.8 (193)	4.7
Social science	18.6 (70)	3.9	21.2 (153)	3.5	12.3 (163)	4.1	20.1 (187)	4.6
Art	8.3 (31)	1.7	7.3 (53)	1.2	2.9 (38)	.9	6.1 (57)	1.4
Humanities	2.9 (11)	.6	5.4 (39)	.9	1.7 (23)	.6	5.0 (46)	1.1
Math	2.2 (8)	.4	11.5 (83)	1.9	30.5 (406)	10.1	8.1 (75)	1.8
Health & safety	3.1 (12)	.7	1.7 (12)	.3	.5 (7)	.2	2.2 (20)	.5
Physical education	2.5 (9)	.5	1.4 (10)	.2	.2 (3)	.1	.2 (2)	.1
Foreign language	9.4 (35)	2.0	5.5 (40)	.9	9.5 (126)	3.1	9.9 (92)	2.2
Language arts	16.3 (61)	3.4	14.9 (107)	2.4	10.6 (141)	3.5	19.2 (178)	4.3
Music	9.7 (36)	2.0	4.5 (32)	.7	6.3 (84)	2.1	8.4 (78)	1.9
Total	100 (374)	20.8	100 (721)	16.4	100 (1330)	33.2	100 (928)	22.6

TABLE 10
Sources of all UHF-VHF Programming by Station Ownership: 1968

	School		College		State		Community	
	% and total hours	Av. hrs. per week	% and total hours	Av. hrs. per week	% and total hours	Av. hrs. per week	% and total hours	Av. hrs. per week
Local production	42.9 (327)	18.2	18.7 (449)	10.2	11.1 (211)	5.3	24.7 (637)	15.5
NET	23.5 (179)	10.0	33.2 (797)	18.1	14.2 (270)	6.7	29.4 (758)	18.5
State networks	10.2 (78)	4.3	17.5 (420)	9.6	64.7 (1229)	30.7	7.3 (188)	4.6
Regional networks	2.2 (17)	.9	7.4 (178)	4.0	1.5 (28)	.7	16.7 (431)	10.5
Commercial TV	1.2 (9)	.5	1.4 (34)	.8	.3 (6)	.2	.9 (23)	.6
Independent sources	6.5 (50)	2.8	7.2 (173)	3.9	3.9 (74)	1.8	6.0 (155)	3.8
Direct exchange	3.4 (26)	1.4	4.6 (111)	2.5	.3 (6)	.2	5.0 (129)	3.1
ETS, NIT, GPNITL, MPATI, etc.	10.1 (77)	7.7	10.0 (240)	5.5	4.0 (76)	1.9	10.0 (258)	6.3
Total	100 (763)	42.4	100 (2402)	54.6	100 (1900)	47.5	100 (2579)	62.9

TABLE 11
Educational Levels of UHF-VHF ITV Programming by Station Ownership: 1968

	School		College		State		Community	
	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station	% and total hours	Av. hrs. per station
Pre-kindergarten	3.2 (12)	.7	.4 (3)	.1	.4 (5)	.2	2.9 (27)	.7
K-3	22.5 (84)	4.7	16.3 (118)	2.7	8.5 (113)	2.8	19.6 (182)	4.4
4-6	34.2 (128)	7.1	24.6 (177)	4.0	18.1 (241)	6.0	36.7 (341)	8.3
7-9	15.8 (59)	3.3	13.8 (100)	2.3	23.5 (313)	7.8	13.1 (121)	2.9
10-12	18.0 (67)	3.7	14.0 (101)	2.3	35.9 (477)	11.9	12.7 (118)	2.9
College	0.9 (4)	.2	21.9 (158)	3.6	3.9 (52)	1.3	8.3 (77)	1.9
Post-grad. or non-college adult ITV	5.3 (20)	1.1	8.8 (64)	1.4	9.7 (129)	3.2	6.7 (62)	1.5
Total	100.0 (374)	20.8	100.0 (721)	16.4	100.0 (1330)	33.2	100.0 (928)	22.6

TABLE 12
UHF-VHF Program Hours Obtained in Different Forms by Station Ownership: 1968

	School		College		State		Community	
	% and total hours	Av. hrs. per week	% and total hours	Av. hrs. per week	% and total hours	Av. hrs. per week	% and total hours	Av. hrs. per week
Local live	10.7 (82)	4.6	7.7 (185)	4.2	3.6 (68)	1.7	7.7 (198)	4.8
Local video tape	30.5 (233)	12.9	10.3 (248)	5.6	14.3 (271)	6.8	17.2 (443)	10.8
Local film	.4 (3)	.2	.3 (8)	.2	.9 (17)	.4	.2 (5)	.1
NET video tape	21.0 (160)	8.9	27.4 (659)	15.0	13.2 (251)	6.3	21.3 (549)	13.4
NET film	1.9 (15)	.8	2.1 (51)	1.2	1.2 (23)	.6	2.4 (62)	1.5
NET interconnected	.5 (4)	.2	4.7 (113)	2.6	1.0 (19)	.5	2.9 (75)	1.8
State and regional networks	8.5 (65)	3.6	15.9 (382)	8.6	52.3 (993)	24.8	18.6 (479)	11.7
Film, other source	7.4 (56)	3.1	8.7 (210)	4.8	3.9 (74)	1.8	5.0 (129)	3.2
Video tape, other source	14.0 (145)	8.1	22.7 (546)	12.4	9.7 (184)	4.6	24.8 (639)	15.6
Total	100 (763)	42.4	100 (2402)	54.6	100 (1400)	47.5	100 (2579)	62.9

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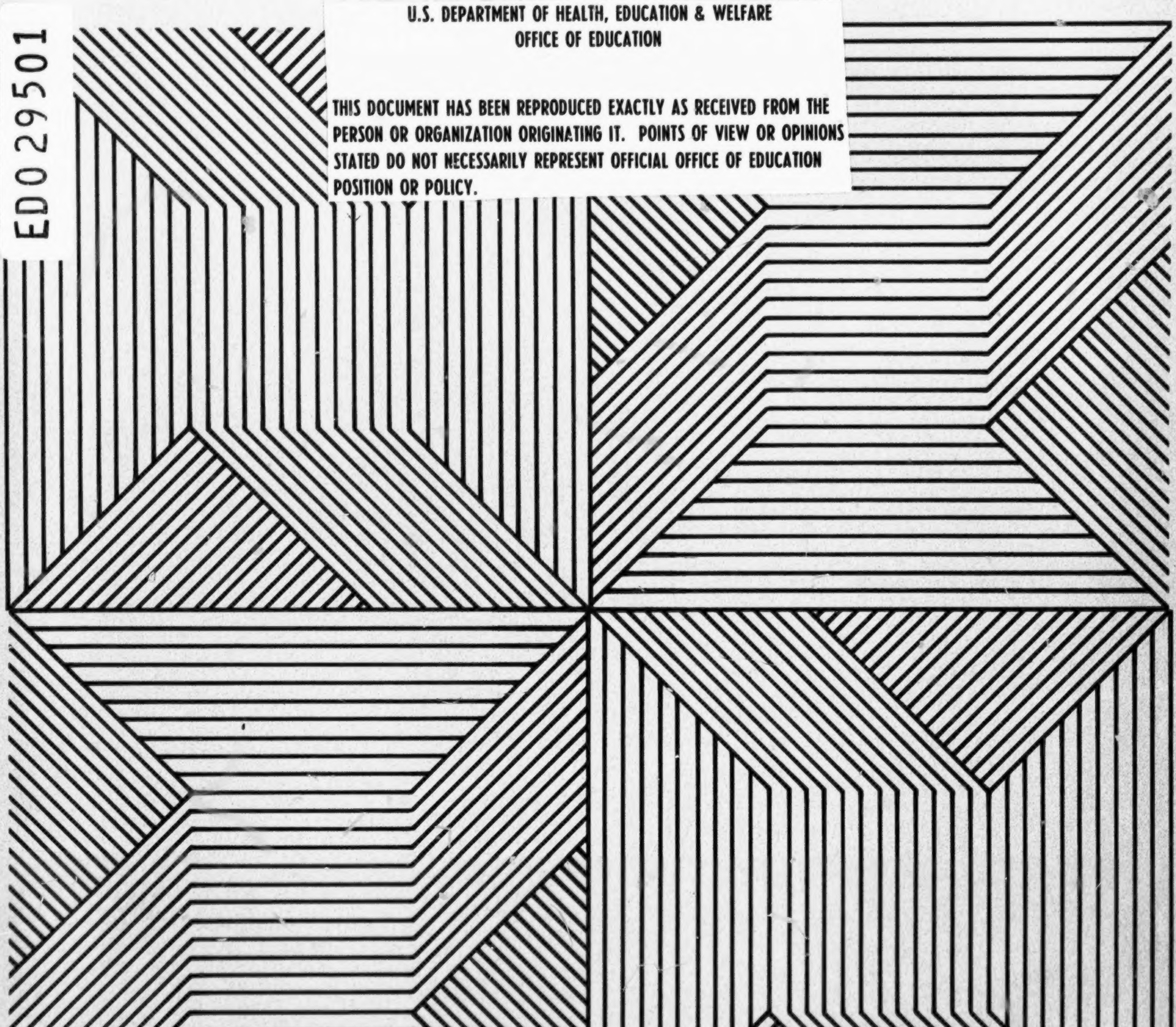

EM007197

One Week of Educational Television

May 6-12, 1968

Individual Station Data

INDIVIDUAL STATION DATA

This rather detached appendix to *One Week of Educational Television No. 5* contains the summarized program hours submitted by each participating station or system. The cooperation of members of programming staffs was absolutely vital to the success of *One Week No. 5*, and that cooperation—in coding the information on each program presented May 6 to 12, 1968—is hereby acknowledged with great appreciation.

The UHF-VHF stations are listed first, followed by the samples of closed circuit and ITFS systems. In each section, operations are ordered alphabetically by states.

In cases of UHF-VHF network simulcasting, all the stations are identified and the single row of data is intended to serve for each. When a station was known to have departed considerably from the weeklong programming offered by the network, that station was listed separately.

A few cases of missing data are indicated by dashes in the tables. These occurred when information was not available, at least in time for inclusion in the report.

Several closed circuit systems listed in the full report as participating are not included in this tabulation of programming hours. These systems provided information about equipment, costs and plans, but no details on actual programming. In most cases these systems were just getting started and were doing no regular programming.

Copies of the full report are available from the sponsoring organizations, the National Instructional Television Center, Box A, Bloomington, Indiana, and National Educational Television, 10 Columbus Circle, New York.

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Station	Location	Total Bdcst. Hours	Gen. Prgm. Hours	ITV Hours	% ITV	Pub. Af- fairs
WAIQ,	Alabama, Alabama ETV Network	68.3	31.6	36.7	53.8	3.5
WBIQ, WCIQ, WDIQ, WFIQ, WGIQ, WHIQ						
WEIQ	Mobile, Alabama Educ. TV Comm.	31.1	11.8	19.3	62.2	2.9
KVZK	American Samoa, Pago Pago	117.4	34.9	82.5	70.3	10.7
KAET	Arizona, Tempe	54.8	32.8	22.0	40.1	9.8
KUAT	Tucson	42.8	27.8	15.0	35.1	7.5
KETS	Arkansas, Conway	67.0	23.5	43.5	64.9	2.0
KCET	California, Los Angeles	56.0	42.1	14.0	24.9	14.2
KIXE	Redding	52.9	34.5	18.4	34.8	14.8
KVIE	Sacramento	59.1	45.4	13.7	23.1	8.9
KVCR	San Bernardino	42.8	33.4	9.4	22.0	13.9
KEBS	San Diego	63.2	38.7	24.5	38.7	11.8
KQED	San Francisco	80.5	62.3	18.2	22.6	28.1
KTEH	San Jose	22.1	5.4	16.6	75.4	1.6
KCSM	San Mateo	–	–	–	–	–
KRMA	Colorado, Denver	45.5	32.0	13.5	29.7	10.5
WEDH,	Connecticut, Connecticut ETV Network	67.0	51.4	15.6	23.3	18.6
WEDW, WEDN						
WUFT	Florida, Gainesville	51.2	42.6	8.5	16.6	16.4
WJCT	Jacksonville	45.2	30.3	14.9	33.0	7.2
WSEC	Miami	59.3	36.1	23.2	39.2	14.0
WTHS	Miami	26.8	0	26.8	100.0	0
WMFE	Orlando	42.7	0	42.7	100.0	0
WSRE	Pensacola	57.2	30.0	27.2	47.5	3.3
WFSU	Tallahassee	36.6	34.4	2.2	6.1	6.2
WEDU	Tampa	79.5	46.3	33.2	41.7	15.8
WUSF	Tampa	27.8	10.6	17.2	62.0	3.5
WGTV	Georgia, Athens	41.8	41.8	0	0	4.0
WETV	Atlanta	64.8	36.3	24.5	43.9	6.8
WCES,	Georgia Educational TV Network	41.0	4.5	36.5	89.0	1.0
WCLP, WDCO, WJSP, WACS, WABW, WVAN, WXGA						
KHET	Hawaii, Honolulu	64.3	35.5	28.8	44.8	12.8
KUID	Idaho, Moscow	46.8	39.0	7.8	16.7	10.0
WSIU	Illinois, Carbondale	52.1	36.3	15.8	30.3	12.2
WTTW	Chicago	62.3	31.2	31.1	49.9	7.8
WXXW	Chicago	25.3	4.0	21.3	84.2	2.5
WILL	Urbana	29.0	29.0	0	0	8.3
WCAE	Indiana, St. John	12.4	8.8	3.7	29.5	4.8
WVUT	Vincennes	10.0	10.0	0	0	0
KDPS	Iowa, Des Moines	66.5	46.1	20.4	30.7	8.5
KTWU	Kansas, Topeka	18.4	17.6	0.8	4.3	7.4
WFPK	Kentucky, Louisville	29.7	11.9	17.8	59.8	6.3
WCBB	Maine, Lewiston	48.4	33.5	14.9	30.8	12.8
WMEB,	Maine ETV Network	57.6	36.9	20.7	35.9	3.2
WMED, WMEM						

UHF-VHF

Alabama—Maine 1

Hours of General Programming in Subject Areas								Hours of General Programming for Intended Audiences						
Cultural	Science	Soc. Science	Sports	Skills	Entertainment	Children's Prgms	Adult Educ.	Gen. Aud.	Pre-Kindergarten	K-6 Grade	6-12 Grade	Women	Other Spec. Audiences	Station
3.6	0.5	1.0	1.0	0.5	20.5	2.5	3.5	28.0	0	2.5	0	1.0	0	WAIQ
1.0	0.5	0	0	0	3.5	2.4	1.9	9.8	0	2.4	0	0	0	WEIQ
1.9	0	0	0	0.3	21.9	0	0	34.9	0	0	0	1.2	0	KVZK
5.8	3.0	0	1.0	4.5	0.2	8.5	1.0	26.8	1.5	4.5	0	0	0	KAET
8.2	10.0	0.5	0	1.0	5.5	4.0	1.0	23.2	0	0	3.5	1.0	0	KUAT
6.0	1.0	0.5	0	3.0	2.5	7.5	1.0	14.0	0.5	7.5	0	1.5	0	KETS
8.8	2.4	2.6	0	2.9	4.3	3.5	3.4	30.5	4.4	0	0	1.0	6.2	KCET
4.5	2.5	1.0	0	1.5	0	7.5	2.8	26.5	0	5.0	2.5	0	0.5	KIXE
4.3	4.4	0	0	3.5	8.2	16.1	0	27.3	4.5	7.4	4.5	0	2.0	KVIE
4.6	2.5	0.5	0.5	0.5	0	4.1	0	21.0	0	4.1	0	1.4	0	KVCR
11.7	1.4	1.5	0	3.4	1.9	8.1	0	27.9	2.8	5.8	0	1.4	1.9	KEBS
12.5	1.0	0.3	0	4.4	3.6	9.4	2.8	50.9	7.7	1.7	0	1.9	0	KQED
0.5	0.9	0.7	0	0	0	0.2	1.5	4.7	0.2	0	0	0.5	0	KTEH
–	–	–	–	–	–	–	–	–	–	–	–	–	–	KCSM
4.9	0.5	2.9	0	1.4	3.7	5.4	2.4	23.5	3.7	1.9	0.5	2.4	0	KRMA
9.2	1.0	0.5	0	4.0	0.5	9.0	7.5	34.6	8.2	0	0	0	0.5	WEDH
11.1	1.7	6.0	0	2.9	0	4.5	0	34.8	0	5.3	0.5	2.9	0	WUFT
4.3	1.0	1.1	0	1.0	7.9	6.9	1.0	25.2	1.0	1.8	2.4	0	0	WJCT
7.7	0.5	2.8	0.5	3.8	0.2	6.5	0	27.8	2.4	5.6	0	0.3	0	WSEC
0	0	0	0	0	0	0	1.0	0	0	0	0	0	0	WTHS
0	0	0	0	0	0	0	0	0	0	0	0	0	0	WMFE
4.0	2.0	0.7	0.2	4.2	15.4	0.2	0	22.1	3.8	2.4	0	1.7	0	WSRE
9.2	0.5	4.2	0.2	2.4	5.7	6.1	0	25.6	0	3.6	2.4	2.4	0.2	WFSU
9.1	3.4	0	0.5	5.7	1.4	8.4	2.0	34.0	3.6	3.9	0	4.9	0	WEDU
3.9	0.5	0.4	0.9	0	1.4	0	0	10.1	0	0	0	0.4	0	WUSF
7.5	0.5	1.0	3.0	3.5	5.5	10.0	6.8	28.2	6.0	4.0	0	1.0	2.5	WGTV
5.4	2.6	3.5	1.0	4.1	1.7	10.8	0	23.5	2.4	8.4	1.5	0	0	WETV
0	0	0	0	0	0	2.5	1.0	0	0	2.8	0.3	0	1.3	WCES
2.5	2.0	1.8	0	0.5	5.0	7.5	3.5	23.0	4.2	3.2	0	0.5	5.0	KHET
5.5	2.0	3.0	0.5	3.5	4.5	10.0	0	32.0	5.0	0	2.5	2.0	0	KUID
3.5	1.5	2.4	0.5	2.5	4.5	9.2	0	25.6	7.5	1.8	0	1.5	0	WSIU
9.0	0	2.0	0	2.0	2.2	7.2	1.5	22.0	3.2	1.0	3.0	0.5	1.0	WTTW
0.5	0	0	0	0.5	0	0	0.5	4.0	0	0	0	0	0	WXXW
4.4	1.9	1.5	0	3.4	2.3	7.2	0	20.9	4.8	2.4	0	1.0	0	WILL
2.0	0	0.5	0.5	0	1.0	0	0	8.3	0	1.0	0.5	0	0	WCAE
0	0	0	0	0	10.0	0	0	10.0	0	0	0	0	0	WVUT
9.3	1.9	0.5	1.0	1.0	3.2	19.4	1.5	23.8	8.5	10.9	0	1.4	1.5	KDPS
3.7	0.5	0.5	0.2	2.4	1.7	1.2	0	15.9	0	1.2	0	0.5	0	KTWU
2.6	0.5	0	0	0.5	0	2.0	0	9.4	0	0	2.0	0.5	0.2	WFPK
1.5	2.2	1.0	0	3.0	6.5	6.2	1.0	27.8	2.8	2.8	0	0	0.8	WCBB
0.5	0	0	0	2.4	13.8	8.9	2.0	28.0	0.2	11.0	4.3	0	0	WMEB

Station	Location	Color Hours	% Color	Color ITV Hours	Sci- ence	Social Sci- ence	Art	Hu- mani- ties
WAIQ WBIQ, WCIQ, WDIQ, WFIQ, WGIQ, WHIQ	Alabama, Alabama ETV Network	0	0	0	9.3	9.0	0.5	0
WEIQ	Mobile, Alabama Educ. TV Comm.	0	0	0	0	12.3	0	0
KVZK	American Samoa, Pago Pago	0	0	0	3.3	21.2	0	0
KAET	Arizona, Tempe	8.3	15.1	2.0	0	0	0	0
KUAT	Tucson	0	0	0	15.0	0	0	0
KETS	Arkansas, Conway	0	0	0	8.0	1.3	2.7	4.8
KCET	California, Los Angeles	10.3	18.3	0	0.5	2.0	0.2	0.7
KIXE	Redding	0	0	0	2.8	2.0	0.5	3.5
KVIE	Sacramento	1.4	2.3	0	2.4	4.2	0	1.2
KVCR	San Bernardino	0	0	0	0.2	2.1	1.0	0
KEBS	San Diego	0.8	1.3	0.8	1.0	1.1	2.1	0.2
KQED	San Francisco	18.1	22.5	1.5	3.4	2.6	1.0	0
KTEH	San Jose	0	0	0	2.0	3.9	1.6	0
KCSM	San Mateo	–	–	–	–	–	–	–
KRMA	Colorado, Denver	7.7	16.9	2.2	1.0	1.0	2.6	2.2
WEDH, WEDW, WEDN	Connecticut, Connecticut ETV Network	0	0	0	4.7	2.0	2.5	0.2
WUFT	Florida, Gainesville	0	0	0	1.2	1.0	1.7	0
WJCT	Jacksonville	0	0	0	2.7	4.7	0.8	0
WSEC	Miami	0	0	0	3.8	6.8	0	0
WTHS	Miami	0	0	0	5.8	6.0	0	0
WMFE	Orlando	0	0	0	6.7	6.0	6.7	4.2
WSRE	Pensacola	0	0	0	4.1	3.3	5.0	6.1
WFSU	Tallahassee	0	0	0	0	0	0	0
WEDU	Tampa	1.9	2.4	0	5.8	13.8	0	1.0
WUSF	Tampa	0	0	0	6.4	1.4	0	0
WGTV	Georgia, Athens	9.8	23.4	0	0	0	0	0
WETV	Atlanta	0	0	0	10.0	2.8	0	0
WCES, WCLP, WDCO, WJSP, WACS, WABW, WVAN, WXGA	Georgia Educational TV Network	0	0	0	10.8	4.7	1.5	0
KHET	Hawaii, Honolulu	0	0	0	2.7	2.3	3.7	2.7
KUID	Idaho, Moscow	5.0	10.7	0	1.0	0	1.7	0
WSIU	Illinois, Carbondale	0	0	0	6.8	5.0	1.3	0
WTTW	Chicago	8.2	13.2	0	5.5	9.4	2.6	3.8
WXXW	Chicago	0	0	0	2.6	3.0	0.6	0
WILL	Urbana	0.2	0.8	0	0	0	0	0
WCAE	Indiana, St. John	0	0	0	2.3	0	0	0.3
WVUT	Vincennes	0	0	0	0	0	0	0
KDPS	Iowa, Des Moines	17.2	25.9	0.7	5.9	4.3	0.8	0
KTWU	Kansas, Topeka	0	0	0	0.2	0.3	0	0
WFPK	Kentucky, Louisville	0	0	0	4.3	4.3	1.3	0
WCBB	Maine, Lewiston	5.5	11.4	0	3.7	1.3	2.2	1.0
WMEB, WMED, WMEM	Maine ETV Network	3.5	6.1	0	6.3	2.8	0.2	0

UHF-VHF
Alabama—Maine 2

Hours of ITV In Subject Areas							Hours of ITV for Educational Levels							
Math	Health, Safety	Phys. Ed.	Foreign Lang.	Lang. Arts	Music	Other	Pre-Kindergarten	K-3 Grade	4-6 Grade	7-9 Grade	10-12 Grade	College	Post-Grad, Adult ITV	Station
4.2	0	0	1.0	7.7	3.5	1.5	0	4.0	13.0	5.2	11.0	0	0.5	WAIQ
2.7	0	0	0	0	1.9	1.9	0	1.8	3.5	0	4.4	6.8	2.4	WEIQ
16.2	1.2	0	2.9	25.8	0	11.7	0.8	17.5	19.2	20.4	23.3	0	0	KVZK
0	2.0	0	10.0	0	3.0	7.0	0	0	0	0	0	19.5	2.5	KAET
0	0	0	0	0	0	0	0	0	0	0	0	15.0	0	KUAT
1.5	0	0	3.0	2.8	6.2	13.3	0	8.6	10.9	5.0	6.0	10.5	2.5	KETS
0.9	1.0	0.2	3.8	2.0	2.2	0.3	0	1.2	8.0	0.8	0	0	4.0	KCET
1.3	0.5	0.7	4.5	0.7	2.0	0	0	6.2	5.3	6.0	1.0	0	0	KIXE
0.3	0.5	0	1.8	1.1	1.7	0.5	0	2.8	6.4	3.5	1.0	0	0	KVIE
0	0	0	2.3	1.3	1.1	1.5	0	1.8	4.4	0.8	1.0	1.5	0	KVCR
0	1.6	0.2	1.2	6.8	1.5	7.4	0.5	1.5	8.8	3.5	2.9	3.9	2.7	KEBS
1.8	0	0	3.6	3.6	1.8	2.4	1.2	3.5	9.7	1.2	0	0	3.9	KQED
0	0.8	0	1.5	2.3	1.2	3.4	0	3.5	7.5	2.2	1.4	1.0	1.0	KTEH
–	–	–	–	–	–	–	–	–	–	–	–	–	–	KCSM
2.0	0	0	2.7	0.7	1.0	0.7	0	3.5	8.2	0	0	0	0	KRMA
0	0	0	0	2.9	0.9	8.3	2.0	3.5	8.3	1.0	1.2	0	0.5	WEDH
3.4	0	0	0	0	0.2	1.0	0	0.8	4.3	0	0	3.5	0	WUFT
2.5	0	0	0	0.5	0.8	2.9	0	1.7	6.7	4.6	2.0	0	0	WJCT
0	0	0	0	12.8	0	0	0	0	0	0	23.2	0	0	WSEC
1.7	0.6	0	4.0	3.0	0	2.0	4.2	0.5	12.3	6.1	0.6	0	3.0	WTHS
0	0	0	3.3	9.2	3.3	3.3	0	12.5	25.3	2.7	4.2	0	0	WMFE
2.0	0	0	0	0	0	6.7	0.2	5.0	6.1	3.3	6.7	6.1	0	WSRE
0	0	0	1.4	0	0	0.8	0	0.7	0.7	0	0	0.8	0	WFSU
4.2	0.7	0	0	1.9	0.8	5.0	0	8.1	11.1	4.6	7.1	0	2.4	WEDU
0	0	0	0	8.4	0	1.0	0	0	0	0	0	12.3	4.9	WUSF
0	0	0	0	0	0	0	0	0	0	0	0	0	0	WGTV
0	0	3.2	3.8	1.0	2.6	5.3	0	8.7	13.8	3.1	0	0	2.5	WETV
7.2	0	0	3.5	5.0	3.8	0	0.2	5.2	9.8	7.2	4.5	0	9.5	WCES
0	0.7	1.0	0	2.7	3.7	4.5	0	6.0	9.7	1.0	7.2	0.5	4.5	KHET
2.5	0	0	0	1.7	0	1.0	0	0	4.3	0	3.5	0	0	KUID
0	0	0	0	0.6	1.1	0.9	0	4.2	3.8	7.7	0	0	0	WSIU
2.3	0	0.5	0	1.9	3.8	1.8	0	4.4	3.8	1.3	0	21.5	0	WTTW
2.2	0	0	2.8	3.7	0.8	5.5	0.2	2.2	9.2	1.2	0	8.5	0	WXXW
0	0	0	0	0	0	0	0	0	0	0	0	0	0	WILL
0	0	0	0	0.5	0	0.5	0	1.0	2.7	0	0	0	0	WCAE
0	0	0	0	0	0	0	0	0	0	0	0	0	0	WVUT
0	[illegible].7	0	1.5	3.3	4.0	0	0	6.2	10.5	3.7	0	0	0	KDPS
0	0	0	0	0.2	0	0	0	0.2	0	0	0.6	0	0	KTWU
2.7	0	0.3	2.0	1.3	1.3	0.3	0	2.8	7.4	4.3	2.9	0	0.2	WFPK
0	1.4	0	1.0	0.9	1.8	2.0	0	2.2	7.6	1.5	1.0	0.5	2.2	WCBB
0	1.0	0	2.5	0	2.0	5.8	0	6.7	9.7	1.8	0.5	0.5	1.5	WMEB

Station	Location	Program Hours From Different Sources							
		Local	NET	NITC	State Networks	Regional Networks	Commercial TV	Independent Sources	Direct Exchange
WAIQ, WBIQ, WCIQ, WDIQ, WFIQ, WGIQ, WHIQ	Alabama, Alabama ETV Network	47.2	14.8	0	0	0	0	6.2	0
WEIQ	Mobile, Alabama Educ. TV Comm.	18.9	9.1	0	0	0	0	0	0
KVZK	American Samoa, Pago Pago	90.6	10.6	0	0	0	15.4	0.7	0
KAET	Arizona, Tempe	25.8	13.0	0	3.3	0.5	1.0	1.0	2.5
KUAT	Tucson	17.5	19.5	0	0	0	0	0.8	2.0
KETS	Arkansas, Conway	21.6	14.0	0	0	0	0	2.5	0
KCET	California, Los Angeles	10.8	14.2	0	0	3.4	0	1.4	3.5
KIXE	Redding	8.0	16.5	4.7	0	5.0	0	6.3	9.3
KVIE	Sacramento	7.2	24.1	0	3.6	4.5	0	7.4	5.7
KVCR	San Bernardino	9.5	15.9	0.7	0	1.0	0	0.3	0
KEBS	San Diego	10.7	26.1	2.6	0	4.8	1.0	1.3	0
KQED	San Francisco	34.4	18.2	2.4	0	4.3	3.4	4.9	2.1
KTEH	San Jose	4.8	1.5	2.8	0	0	0	1.2	2.1
KCSM	San Mateo	–	–	–	–	–	–	–	–
KRMA	Colorado, Denver	23.8	13.5	0	0	0.5	0	3.9	0
WEDH, WEDW, WEDN	Connecticut, Connecticut ETV Network	11.9	21.7	0	0	23.8	0	9.0	0.5
WUFT	Florida, Gainesville	11.6	20.1	0	0	0	5.1	7.5	3.9
WJCT	Jacksonville	17.8	14.5	0	0	0	4.8	4.8	0
WSEC	Miami	31.2	14.5	0	0	0	3.6	9.0	0.5
WTHS	Miami	25.8	0	0	0	0	0	1.0	0
WMFE	Orlando	36.8	0	0	0	0	0	0	0
WSRE	Pensacola	22.8	19.4	0	0	0	0	0	0
WFSU	Tallahassee	3.9	18.2	0	3.2	3.3	2.4	3.6	1.0
WEDU	Tampa	35.8	27.2	3.4	0	0	0.9	4.3	4.2
WUSF	Tampa	15.3	0	0	0	0	4.9	6.1	1.0
WGTV	Georgia, Athens	6.8	12.8	0	0.5	2.0	0.5	15.2	0
WETV	Atlanta	29.7	7.8	0	24.7	0	0	2.4	0
WCES, WCLP, WDCO, WJSP, WACS, WABW, WVAN, WXGA	Georgia Educational TV Network	0	0	0	41.0	0	0	0	0
KHET	Hawaii, Honolulu	23.5	25.6	0.7	0	1.0	0	1.5	2.0
KUID	Idaho, Moscow	0	26.0	4.3	0	0.5	1.0	3.0	7.5
WSIU	Illinois, Carbondale	4.1	21.2	0.3	2.1	1.8	1.7	1.0	0.5
WTTW	Chicago	29.0	17.2	0	0	2.5	0	3.0	0.5
WXXW	Chicago	9.0	2.5	0	0	1.0	0	0	0
WILL	Urbana	4.4	16.2	0	0	0.5	0	0.8	0
WCAE	Indiana, St. John	6.5	0	0.5	0	0	0	1.2	0
WVUT	Vincennes	0	0	0	0	0	0	10.0	0
KDPS	Iowa, Des Moines	17.7	18.5	0	0	3.9	0	5.2	0
KTWU	Kansas, Topeka	2.4	10.5	0	0	0.9	0.9	0.2	0
WFPK	Kentucky, Louisville	6.8	11.4	0	0	0	0	0	0.5
WCBB	Maine, Lewiston	4.8	0	0	11.2	34.4	0	0	0
WMEB, WMED, WMEM	Maine ETV Network	21.1	35.8	0	0	0	0	0.4	0

Program Hours Obtained in Different Forms

ETS	GPNITL MPATI Etc.	Other	Local Live	Local Video Tape	Local Film, First Run	Local Film, Rerun	NET Video Tape	NET Film	NET Inter-cnnctd	State, Re-gional Nets.	Film, Other Source	Video Tape, Other Source	Station
0	0	0	7.7	39.3	2.5	0	13.6	1.2	0	0	4.0	0	WAIQ
1.0	0	2.2	4.0	14.8	0	0	8.4	0.9	0	0	0	3.0	WEIQ
0	0	0	84.1	6.2	14.3	1.6	10.9	0	0	0	0.2	0	KVZK
5.0	2.0	0.8	11.8	14.5	0	0	15.8	0.5	0	0	2.2	10.0	KAET
3.0	0	0	2.0	15.5	0	0	19.5	0	0	0	1.5	4.2	KUAT
4.5	16.7	7.5	2.5	18.6	0	0	12.5	2.0	0	0	8.5	22.7	KETS
0	0.2	22.6	0	10.8	0	0	14.2	0	0	0	2.3	28.7	KCET
1.5	1.7	0	0	8.5	0	0	0	0	0	44.4	0	0	KIXE
2.0	4.6	0	3.0	4.2	0	0	23.1	0	0	2.0	2.7	24.1	KVIE
1.4	4.6	2.5	1.6	7.9	0	0	10.9	2.9	2.0	0	1.4	9.1	KVCR
6.0	3.2	7.1	1.4	9.0	0	0	23.1	1.0	2.0	2.0	3.9	20.6	KEBS
2.4	1.3	6.6	14.8	20.6	0	2.4	18.2	0	0	0	5.6	18.6	KQED
2.2	6.5	1.0	3.2	1.6	0	0	0	1.5	0	0	2.9	12.9	KTEH
–	–	–	–	–	–	–	–	–	–	–	–	–	KCSM
1.4	0	2.5	13.5	9.6	0	1.2	11.5	1.5	2.0	0	0.5	5.8	KRMA
0	0	0	11.6	5.4	0	0	15.7	1.0	2.5	0	1.0	29.2	WEDH
0	2.9	0	1.4	10.2	0	0	14.4	3.7	2.0	0	7.4	12.1	WUFT
2.9	0.5	0	6.1	11.7	0	0	13.0	1.4	0	0	6.8	6.2	WJCT
0.5	0	0	1.2	29.9	0.8	0	16.2	0	0	0	1.6	9.6	WSEC
0	0	0	0	25.4	0	0	0	0	0	0	0	1.5	WTHS
0	5.8	0	0	36.8	0	0	0	0	0	0	0	5.8	WMFE
0	0	15.0	0	22.8	0	0	18.0	1.8	0	0	7.0	7.6	WSRE
1.0	0	0	1.2	2.7	1.2	0	15.2	0	4.4	3.2	0.2	8.4	WFSU
2.9	0	0.9	32.9	2.9	0	0	20.6	4.7	1.9	0	6.2	10.4	WEDU
0	0	0.5	0	15.3	0	0	0	0	0	0	3.2	8.2	WUSF
3.5	0	0.5	0	5.0	0	0	6.8	1.5	0	5.5	8.0	15.0	WGTV
0	0	0.2	2.6	26.6	0	0	17.0	1.4	0	6.6	8.7	2.0	WETV
0	0	0	0.7	32.8	0	0	2.5	0	0.8	0	1.0	3.2	WCES
2.5	7.7	0	6.0	17.5	0	0	21.8	1.8	2.0	1.0	5.2	9.1	KHET
4.5	0	0	0	0.5	0	0	21.5	2.5	2.0	0	5.0	15.3	KUID
0	4.2	15.2	0.2	4.1	0	0	20.7	0.5	0	6.3	8.8	4.2	WSIU
0.5	9.5	0	14.0	15.0	0	0	16.8	0.5	0	0	3.0	13.1	WTTW
0	12.8	0	0.5	5.5	0	0	2.5	0	0	0	1.0	15.8	WXXW
5.0	0	2.0	3.5	1.0	0	0	15.8	0	0	0	1.7	7.1	WILL
0	4.2	0	1.5	5.0	0	0	0	0	0	0	1.3	4.4	WCAE
0	0	0	0	0	0	0	0	0	0	0	10.0	0	WVUT
3.4	11.7	6.1	1.9	15.8	0	0	16.6	1.4	0	0	10.8	20.0	KDPS
3.4	0	0	0.2	3.1	0	0	8.6	1.4	0	0	0.2	4.8	KTWU
0	1.0	0	16.8	0	0	0	9.1	0	2.3	0	0	1.5	WFPK
0	0	0	0.3	3.9	0	0	0	0	0	44.2	0	0	WCBB
0	0	0	1.5	17.8	0	3.2	31.5	2.2	1.0	0	0.2	0	WMEB

Station	Location	Total Bdcst. Hours	Gen. Prgm. Hours	ITV Hours	% ITV	Pub. Af-fairs
WGBH	Massachusetts, Boston	64.7	50.8	13.8	21.4	17.8
WGBX	Boston	3.2	0	3.2	100.0	0
WTVS	Michigan, Detroit	57.4	0	56.9	99.1	0
WMSB	East Lansing	37.0	27.8	9.2	25.0	11.0
WCMU	Mt. Pleasant	43.7	32.4	11.3	25.8	8.8
WTVS	Southfield	73.3	49.4	23.9	32.6	10.3
WUCM	University Center	48.0	36.1	11.9	24.8	6.4
KWCM	Minnesota, Appleton	68.8	43.1	25.7	37.4	11.5
WDSE	Duluth	49.7	28.9	20.1	40.5	0
KTCA	St. Paul	79.3	42.9	36.4	45.9	17.8
KTCI	St. Paul	26.0	14.0	12.0	46.2	4.0
KCSD	Missouri, Kansas City	45.6	28.2	17.5	38.3	3.6
KETC	St. Louis	93.0	28.8	64.2	69.1	4.8
KUON	Nebraska, Nebraska ETV Network	83.2	57.5	25.7	30.9	14.4
KLNE, KPNE, KTNE, KMNE, KXNE						
KYNE	Omaha	38.1	3.5	34.6	90.8	0.5
WENH	New Hampshire, Durham	56.7	32.6	24.1	42.5	9.3
KNME	New Mexico, Albuquerque	72.2	58.2	14.0	19.4	12.5
WNYE	New York, Brooklyn	34.6	0	34.6	100.0	0
WNED	Buffalo	59.8	28.4	31.4	52.6	15.5
WCNY	Liverpool	91.3	52.0	39.3	43.1	13.5
WNYC	New York	55.1	46.4	8.7	15.9	13.0
WNDT	New York	88.1	39.4	48.7	55.2	19.5
WXXI	Rochester	90.6	57.9	32.7	36.1	18.2
WMHT	Schenectady	51.0	45.0	6.0	11.8	19.0
WUNC	N.C., University of North Carolina Educ. TV Net.	60.5	40.9	19.6	32.4	6.4
WUND, WUNE, WUNF, WUNG						
WTVI	Charlotte	59.8	34.2	25.7	42.9	15.8
KFME	North Dakota, Fargo	38.7	32.1	6.6	17.0	10.2

UHF-VHF
Massachusetts—North Dakota 1

Hours of General Programming in Subject Areas								Hours of General Programming for Intended Audiences						
Cultural	Science	Soc. Science	Sports	Skills	Entertainment	Children's Prgms	Adult Educ.	Gen. Aud.	Pre-Kindergarten	K-6 Grade	6-12 Grade	Women	Other Spec. Audiences	Station
12.0	1.0	2.5	0	2.0	2.5	11.8	1.8	38.2	6.2	6.2	0	0	0	WGBH
0	0	0	0	0	0	0	0	0	0	0	0	0	0	WGBX
0	0	0	0	0	0	0	0	0.5	0	4.2	0	0	0	WTVS
6.5	1.0	1.0	0.5	0.5	2.0	4.8	0.5	23.0	4.0	0.8	0	0.5	0	WMSB
13.5	1.4	0.5	1.0	5.3	0.5	0.5	0.9	30.5	0	0.5	0	1.4	0	WCMU
11.8	5.4	1.9	0	4.4	1.2	12.1	1.8	35.3	2.4	5.3	4.8	1.0	0.6	WTVS
5.6	1.9	1.0	0	3.4	5.4	11.5	1.0	20.3	4.8	7.7	0	3.4	1.0	WUCM
3.0	0	2.5	0	1.3	8.8	2.5	12.0	40.8	0	1.0	1.0	0	0	KWCM
1.0	0	0	0	2.2	0	4.9	21.4	23.6	0	1.0	0	1.0	2.0	WDSE
8.2	0	1.5	0	2.0	3.9	2.5	8.0	41.8	2.5	0.5	0.5	0	0.5	KTCA
2.5	0	0.5	0	0	2.5	2.5	2.0	11.0	2.5	0	3.0	0	0.5	KTCI
7.3	2.0	3.0	0	1.0	1.5	7.0	3.0	18.7	4.1	3.4	0	0.5	1.5	KCSD
7.7	19.7	11.7	0.5	21.1	1.0	24.1	2.5	15.5	8.2	47.8	14.9	0.5	1.5	KETC
7.3	3.6	2.9	0	5.3	4.1	17.0	2.9	34.8	12.6	0	4.4	2.4	1.9	KUON
0	0	0	0	0	0	0	3.0	2.0	0	0	1.5	0	0	KYNE
10.2	1.0	0.5	0	2.9	0	7.3	1.4	24.4	4.9	0	2.4	0.5	0.5	WENH
12.5	5.0	6.5	0.8	2.0	0	17.5	1.5	43.2	13.5	1.5	0	1.0	0	KNME
0	0	0	0	0	0	0	0	0	0	0	0	0	0	WNYE
4.7	0	0	0	1.4	1.9	3.4	1.0	23.6	0	3.4	0	0.5	1.0	WNED
11.8	0	1.5	2.0	5.5	3.5	11.2	3.0	41.2	0	6.2	0	1.5	2.0	WCNY
4.4	1.0	0	0.5	6.3	22.7	0	4.4	39.0	0	0	0	0	5.9	WNYC
8.5	0	0	0	1.0	1.5	6.9	2.0	31.0	4.4	2.5	0	0	1.5	WNDT
16.3	1.6	0.4	0	3.8	3.4	5.4	8.7	43.4	2.5	2.9	1.4	1.9	5.8	WXXI
7.5	0	0.5	1.5	3.0	0.5	9.0	4.0	30.5	0	6.0	1.5	1.5	5.5	WMHT
11.0	4.0	0	0.5	3.5	8.5	7.0	0	31.9	0	7.0	0	1.5	0.5	WUNC
3.2	0.5	0	0	1.0	4.7	6.0	3.0	26.2	0	6.0	0	0.5	0	WTVI
5.8	0.5	0	0	3.9	9.3	2.4	0	25.3	0	2.4	0	1.4	3.0	KFME

Station	Location	Color Hours	% Color	Color ITV Hours	Sci- ence	Social Sci- ence	Art	Hu- mani- ties
WGBH	Massachusetts, Boston	16.0	24.7	0	2.8	4.2	1.0	0
WGBX	Boston	0	0	0	0	1.5	0	0
WTVS	Michigan, Detroit	0	0	0	10.6	6.7	2.8	0.4
WMSB	East Lansing	0	0	0	2.8	1.0	0.8	0.5
WCMU	Mt. Pleasant	0	0	0	5.0	0.5	0.5	3.3
WTVS	Southfield	0.9	1.3	0	2.0	2.8	1.2	0
WUCM	University Center	0	0	0	4.0	1.9	0.5	0
KWCM	Minnesota, Appleton	1.5	2.2	0	3.0	1.9	0	2.3
WDSE	Duluth	4.4	8.7	0.5	3.2	2.9	0.5	0
KTCA	St. Paul	16.7	21.0	2.0	3.0	5.5	0.8	0.8
KTCI	St. Paul	6.0	23.1	1.0	3.0	1.5	0	0
KCSD	Missouri, Kansas City	0	0	0	6.4	4.6	0.2	0
KETC	St. Louis	0	0	0	18.2	11.7	4.5	0.5
KUON	Nebraska, Nebraska ETV Network	8.0	9.6	0	5.2	4.3	1.0	1.5
KLNE, KPNE, KTNE, KMNE, KXNE								
KYNE	Omaha	0	0	0	10.7	10.0	3.5	0.7
WENH	New Hampshire, Durham	5.2	9.1	0	4.9	7.8	0.5	0
KNME	New Mexico, Albuquerque	11.5	15.9	0	5.0	0	0	4.0
WNYE	New York, Brooklyn	0	0	0	6.7	7.8	1.3	1.4
WNED	Buffalo	0	0	0	2.3	6.9	0.7	1.0
WCNY	Liverpool	5.8	6.3	0	9.6	13.0	0.5	2.5
WNYC	New York	14.9	27.1	0	0	2.0	0	0.5
WNDT	New York	10.2	11.6	2.5	7.0	16.3	1.5	4.5
WXXI	Rochester	4.5	5.0	0	3.4	9.7	0.6	3.2
WMHT	Schenectady	1.5	2.9	0	0	2.5	0	1.5
WUNC	N.C., University of North Carolina Educ. TV Net.	2.2	3.7	0	5.3	5.0	0	0
WUND, WUNE, WUNF, WUNG								
WTVI	Charlotte	0	0	0	0	2.7	0	0
KFME	North Dakota, Fargo	4.2	10.8	0	1.3	0	1.3	0

Hours of ITV In Subject Areas							Hours of ITV for Educational Levels							
Math	Health, Safety	Phys. Ed.	Foreign Lang.	Lang. Arts	Music	Other	Pre-Kindergarten	K-3 Grade	4-6 Grade	7-9 Grade	10-12 Grade	College	Post-Grad, Adult ITV	Station
0.5	0	0	0	3.9	1.5	0	0	0.8	12.1	2.5	2.0	2.0	0	WGBH
0.5	0.8	0	0	0.5	0	0	0	0	0	0	0	0	3.2	WGBX
6.6	1.8	0	4.8	18.7	1.7	2.0	1.0	27.4	19.5	7.5	0	0	1.5	WTVS
0.5	0	0.5	0	0	1.8	1.2	0	3.8	5.0	0	0	0	0.5	WMSB
0	1.7	0	0	0	0.2	0	0	0.8	1.2	1.0	0	8.3	0	WCMU
2.8	0	0	4.8	7.7	0	2.0	0.3	7.1	11.1	3.9	0	0	1.0	WTVS
0.5	0	0	0	2.6	0.5	1.9	0	2.8	5.8	0	0	1.4	1.9	WUCM
4.1	1.5	0	7.8	0.3	2.4	0.3	0	3.6	16.8	2.7	1.2	1.0	0	KWCM
2.7	0.2	0	4.5	1.8	3.4	1.0	2.5	3.5	10.6	3.9	1.0	0	2.8	WDSE
3.2	1.8	0	10.1	5.7	2.3	3.8	2.5	7.2	8.8	5.7	0.8	2.0	11.4	KTCA
0	6.0	0	0	1.5	0	0	2.5	0	0	0	6.0	4.5	1.5	KTCI
0	1.8	0	1.6	3.3	0	0	0	1.9	4.0	8.9	2.7	0	0	KCSD
1.0	4.2	0	0.5	14.8	6.0	7.8	6.0	25.2	26.8	9.3	5.6	0	1.0	KETC
3.6	0	0.2	0	5.4	0.5	4.0	0.5	4.6	6.8	2.3	2.3	8.8	0.4	KUON
0	2.5	0	0	3.7	3.0	0.5	0	6.2	12.4	1.3	4.2	1.0	9.5	KYNE
0	0.6	0	3.0	3.2	1.1	2.8	0	2.8	6.1	4.0	5.0	2.4	3.8	WENH
0	1.0	0	0	1.0	2.0	1.0	0	0	5.0	0	1.0	7.0	1.0	KNME
1.9	0	0	0	5.5	0	10.0	1.5	2.0	18.6	2.9	3.8	0	5.8	WNYE
3.0	0.5	0	1.0	6.5	1.0	8.7	0	10.1	7.3	1.7	3.6	8.9	0	WNED
2.8	0	0.5	0	8.8	1.0	2.2	0	11.2	8.0	12.1	0.5	8.5	0	WCNY
0	0	0	0	0	0	12.5	0	1.0	0	0	0	2.9	5.3	WNYC
3.3	1.0	0	3.5	5.0	2.2	4.8	2.2	7.2	14.7	0	11.5	10.0	3.0	WNDT
2.7	1.0	0	0	6.6	2.2	2.4	0	5.9	9.6	1.0	7.4	6.9	1.9	WXXI
1.0	0	0	0	0	0	1.5	0	0	0	0	0.5	6.0	0	WMHT
2.5	0.8	0	0	0	0	6.0	0	2.5	0.8	5.5	5.0	0	5.8	WUNC
0.7	0	0	0	9.0	1.0	10.3	5.0	2.3	4.3	2.0	6.0	3.0	2.0	WTVI
0.5	0	0	0	1.7	0.5	1.3	0	2.8	2.7	0.6	0	0	0.5	KFME

						Program Hours From Different Sources			
Station	Location	Local	NET	NITC	State Networks	Regional Networks	Commercial TV	Independent Sources	Direct Exchange
WGBH	Massachusetts, Boston	17.7	29.2	0	0	7.3	1.0	5.8	3.2
WGBX	Boston	0	0	0	0	0	0	0	0
WTVS	Michigan, Detroit	47.2	0	2.0	0	0	0	0	0
WMSB	East Lansing	12.2	12.2	0	0	0	0	2.5	3.8
WCMU	Mt. Pleasant	13.7	19.5	0	0	1.0	0	3.4	1.8
WTVS	Southfield	25.4	28.5	0	0	3.9	0	0	1.9
WUCM	University Center	1.7	15.4	0	11.0	8.7	3.3	3.7	1.9
KWCM	Minnesota, Appleton	0	0	0	0	67.3	0	0.5	0
WDSE	Duluth	2.5	9.2	0	0	0	0	1.6	35.6
KTCA	St. Paul	44.1	14.3	3.0	0.5	0	0	6.4	5.4
KTCI	St. Paul	12.0	7.0	1.5	0	0	0	0	5.5
KCSD	Missouri, Kansas City	7.7	18.7	2.9	0	3.9	0	2.4	5.3
KETC	St. Louis	21.5	20.3	11.2	0	1.5	0	2.5	4.0
KUON	Nebraska, Nebraska ETV Network	27.5	22.3	0.7	4.2	2.4	0.9	3.5	5.8
KLNE, KPNE, KTNE, KMNE, KXNE									
KYNE	Omaha	15.8	1.5	0	1.7	0	0	2.2	0
WENH	New Hampshire, Durham	7.4	3.9	0	0	35.3	0	2.3	1.9
KNME	New Mexico, Albuquerque	26.5	34.2	0	0	1.0	0	7.5	1.5
WNYE	New York, Brooklyn	23.8	1.4	1.5	1.4	6.4	0	0	0
WNED	Buffalo	14.8	1.5	0	23.0	14.5	0	0.5	0
WCNY	Liverpool	2.5	15.2	0	13.8	19.0	0	0	11.1
WNYC	New York	20.2	0	0	0	0	4.4	15.0	1.0
WNDT	New York	18.2	18.2	3.5	11.5	23.1	3.0	1.4	2.8
WXXI	Rochester	15.0	20.9	1.0	27.6	10.5	0	4.3	0.5
WMHT	Schenectady	8.0	3.8	0	24.8	9.5	1.5	1.5	0
WUNC	N.C., University of North Carolina Educ. TV Net.	0	19.0	0	29.5	0	0.5	5.0	0
WUND, WUNE, WUNF, WUNG									
WTVI	Charlotte	20.8	9.7	0	0	2.2	3.0	0	11.5
KFME	North Dakota, Fargo	3.1	12.5	0.5	0	2.9	0	7.2	0

UHF-VHF

Massachusetts—North Dakota 3

Program Hours Obtained in Different Forms

ETS	GPNITL MPATI Etc.	Other	Local Live	Local Video Tape	Local Film, First Run	Local Film, Rerun	NET Video Tape	NET Film	NET Inter-cnnctd	State, Regional Nets.	Film, Other Source	Video Tape, Other Source	Station
0.5	0	0	5.2	13.8	0	0	28.2	1.0	0	3.0	3.8	9.7	WGBH
0	0	3.2	0	0	0	0	0	0	0	0	0	3.2	WGBX
0	6.6	0	0	44.9	0	0	0	0	0	4.3	0	5.2	WTVS
4.2	0.5	1.5	8.2	4.8	0	0	12.5	0.2	0	0	2.2	9.0	WMSB
4.4	0	0	7.4	6.3	0	0	16.6	2.9	0	0	3.4	7.1	WCMU
3.6	0	10.0	0	24.9	0	0	32.2	4.3	0	0	3.2	8.7	WTVS
1.4	1.0	0	0.7	1.0	0	0	13.9	2.9	0	11.0	1.8	14.4	WUCM
0	0	1.0	0	0	0.5	0	0	0	0	68.3	0	0	KWCM
0	0	0	1.7	2.7	0	0	9.8	1.5	0	28.7	1.6	3.0	WDSE
2.5	1.9	1.2	23.5	23.4	1.6	0	11.2	2.5	2.0	0	15.1	0	KTCA
0	0	0	4.0	9.5	0	0	6.5	0	0	0	6.0	0	KTCI
2.4	2.3	0	5.5	2.2	0	0	18.8	0	0	0	0.9	18.2	KCSD
2.5	29.6	0	0	21.5	0	0	19.8	0	0.5	0	2.5	48.7	KETC
6.3	1.4	8.3	7.2	18.4	0	0	22.4	0	4.0	4.8	6.2	20.3	KUON
0	15.8	1.0	12.8	3.0	0	0	0	1.5	0	0	3.2	17.6	KYNE
0	3.1	2.8	0.7	6.7	0	0	0.5	3.4	0	23.4	0.7	19.8	WENH
1.5	0	0	7.0	19.5	0	0	26.7	7.5	0	0	7.0	4.5	KNME
0	0	0	0	19.0	0	0	1.4	0	0	4.2	1.4	8.6	WNYE
0	5.3	0	0.5	15.6	0	0	0.5	0.5	0	37.5	0.5	4.5	WNED
4.0	12.0	3.2	0	15.0	0	0	4.7	0	34.8	12.0	0.2	24.6	WCNY
0	0	14.6	19.2	1.0	1.0	0	0	0	0	0	16.9	16.9	WNYC
0	6.3	0	4.8	19.9	0	0	6.5	2.0	2.0	28.8	2.2	21.9	WNDT
0.5	2.2	8.2	9.6	4.6	0	0	5.4	2.4	0	45.2	4.5	18.9	WXXI
1.0	0	1.0	5.0	2.5	0	0	4.8	0	1.5	28.8	0	6.0	WMHT
4.5	0	2.0	30.0	1.0	0	0	18.0	0.5	0	0	11.0	0	WUNC
6.0	0	6.6	3.2	17.7	0	0	9.2	0.5	0	0	0.2	29.2	WTVI
0	4.3	8.3	0.2	1.5	0	0	10.7	1.8	2.0	3.9	7.4	11.2	KFME

Station	Location	Total Bdcst. Hours	Gen. Prgm. Hours	ITV Hours	% ITV	Pub. Af-fairs
WOUB	Ohio, Athens	37.2	23.0	14.2	38.1	7.6
WBGU	Bowling Green	30.7	20.7	10.0	25.6	7.3
WCET	Cincinnati	34.2	33.5	0.7	2.1	8.8
WVIZ	Cleveland	69.5	38.3	31.2	45.0	9.0
WOSU	Columbus	93.2	46.0	47.2	50.6	9.8
WGSF	Newark	64.3	37.2	27.1	42.1	12.5
WMUB	Oxford	32.1	25.2	6.9	21.6	6.0
WGTE	Toledo	42.8	26.6	15.1	35.4	3.5
KETA, KOED	Oklahoma, Oklahoma ETV Network	50.7	23.8	26.8	53.0	6.7
KOAC	Oregon, Corvallis	65.2	48.8	16.4	25.2	10.2
KOAP	Portland	65.2	48.8	16.4	25.2	10.2
WLVT	Pennsylvania, Bethlehem	60.2	34.9	25.3	42.0	13.8
WQLN	Erie	36.4	23.4	13.0	35.6	9.6
WITF	Hershey	54.4	40.2	14.2	26.1	11.2
WHYY	Philadelphia	82.6	55.3	27.3	33.0	19.9
WQED	Pittsburgh	85.0	60.2	24.8	29.2	25.8
WVIA	Scranton	40.7	27.0	13.7	33.6	11.7
WPSX	University Park	77.1	40.8	36.3	47.0	18.2
WIPM	Puerto Rico, Mayaquez	64.8	48.0	16.8	25.8	–
WIPR	San Juan	62.0	49.5	12.5	20.2	–
WSBE	Rhode Island, Providence	39.8	20.5	19.3	48.5	9.0
WRLK, WITV, WNTV, WEBA, WJPM	South Carolina, South Carolina ETV Network	113.7	9.9	103.8	91.3	0
KBHE	South Dakota, Rapid City	65.3	46.1	19.2	29.4	–
KUSD	Vermillion	77.3	58.1	19.2	24.8	–
WSJK	Tennessee, Knoxville	52.1	23.1	29.0	55.6	5.0
WKNO	Memphis	106.7	89.2	17.4	16.3	25.6
WDCN	Nashville	66.9	37.8	31.8	47.6	8.2
KLRN	Texas, Austin	104.8	73.2	31.6	30.1	27.4
KERA	Dallas	67.5	42.0	25.5	37.8	14.2
KUHT	Houston	27.7	22.2	5.4	19.6	7.0
KTXT	Lubbock	25.4	24.4	1.0	3.8	4.9
KRET	Richardson	3.0	0	3.0	100	0
KUSU	Utah, Logan	33.1	18.8	14.3	43.2	4.4
KWCS	Ogden	28.6	6.0	22.6	79.0	0
KBYU	Provo	43.9	39.4	4.5	10.2	14.0
KUED	Salt Lake City	81.2	35.9	45.2	55.7	10.5
WETK, WBTB, WVTA, WVER	Vermont, Vermont Educational TV Network	42.0	27.5	14.5	34.5	3.4
WHRO	Virginia, Norfolk	18.3	0	18.3	100	0
WCVE	Richmond	47.7	20.2	27.5	57.6	9.4
WCVW	Richmond	47.7	20.2	27.5	57.6	9.4
WBRA	Roanoke	60.3	32.8	27.5	45.6	8.5

Hours of General Programming in Subject Areas								Hours of General Programming for Intended Audiences						
Cultural	Science	Soc. Science	Sports	Skills	Entertainment	Children's Prgms	Adult Educ.	Gen. Aud.	Pre-Kindergarten	K-6 Grade	6-12 Grade	Women	Other Spec. Audiences	Station
3.0	1.0	0.5	0.5	0.5	5.7	3.8	0.5	19.1	0	2.4	1.0	0.5	0	WOUB
2.4	0.5	2.4	0.5	1.4	1.2	4.9	0	15.3	2.4	2.5	0	0.5	0	WBGU
4.9	0.5	0	0.5	2.0	6.7	10.6	0	21.4	6.3	4.8	0	1.0	0	WCET
6.0	1.0	2.0	1.2	2.5	6.2	8.2	2.0	27.0	0	8.2	0.5	2.5	0	WVIZ
10.2	1.0	7.2	0	7.2	1.0	6.8	2.9	29.1	0	4.4	2.9	4.4	5.3	WOSU
7.5	1.5	0	2.4	5.5	4.6	2.8	0	34.0	0	0.2	2.5	0	0	WGSF
7.7	0.5	0.5	0.5	3.0	1.0	6.0	0	18.2	2.5	3.5	0	1.0	0	WMUB
6.6	1.4	4.8	0	2.9	3.9	4.0	0	22.9	3.0	0.2	1.5	1.0	0.3	WGTE
2.7	0.5	1.6	0	1.5	4.2	5.0	0	15.9	0	5.0	0	0	0.5	KETA
3.0	4.5	5.0	0	3.0	5.0	11.0	6.5	30.8	0	9.5	6.5	0	2.0	KOAC
3.0	4.5	5.0	0	3.0	5.0	11.0	6.5	30.8	0	9.5	6.5	0	2.0	KOAP
6.5	1.0	0.5	0	3.2	1.9	6.2	1.0	26.6	0.2	2.5	2.4	0.5	3.0	WLVT
6.6	1.5	1.0	0	2.4	0	2.4	0	19.5	0	0	2.4	1.0	0.5	WQLN
7.6	0	1.9	0	5.2	8.0	4.8	1.4	34.4	0.3	4.8	0	1.0	0	WITF
12.1	1.4	1.0	0	3.9	4.8	11.7	0	40.2	0	12.7	0	0.5	1.9	WHYY
6.3	1.0	1.2	0	6.3	7.3	9.6	1.4	47.4	9.6	0	1.0	1.9	0	WQED
5.0	0.5	0	0	3.4	4.8	0	1.0	25.9	0	0	0	0.5	0	WVIA
6.7	1.4	1.9	0	2.9	0.6	8.5	1.9	31.7	2.8	5.7	0.6	0	0	WPSX
–	–	–	–	–	–	–	–	–	–	–	–	–	–	WIPM
–	–	–	–	–	–	–	–	–	–	–	–	–	–	WIPR
4.0	1.0	3.5	0.5	0	0	2.5	0	18.0	0	2.5	0	0	0	WSBE
0	2.2	0	0	0	0	0	7.2	5.7	0	0	0	0	3.7	WRLK
–	–	–	–	–	–	–	–	–	–	–	–	–	–	KBHE
–	–	–	–	–	–	–	–	–	–	–	–	–	–	KUSD
5.1	0	2.0	0	2.4	3.3	3.4	0	20.2	0	0	0	0.5	0	WSJK
18.5	0	0.5	0	0.5	29.4	7.2	7.5	81.5	2.4	4.8	0	0.5	0	WKNO
7.0	1.5	1.0	0	3.0	7.2	4.8	1.0	28.0	3.0	2.0	0	0.5	0	WDCN
16.4	0.2	2.0	0.8	2.0	9.5	15.1	0	54.6	0.5	17.1	2.0	0	2.5	KLRN
9.0	3.2	1.0	1.0	4.0	0.5	9.0	0	35.2	0	4.8	0	1.0	1.0	KERA
4.0	2.0	2.0	0	1.5	3.8	2.0	0	20.2	0.8	1.2	0	0	0	KUHT
5.5	1.0	2.4	1.0	1.9	0	7.7	0	16.2	0	7.7	0.5	0	0	KTXT
0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	KRET
3.4	1.5	1.2	0.5	1.5	0.7	3.8	1.9	16.0	0	15.2	1.0	1.0	0	KUSU
0	0	0	0	0	6.0	0	0	6.0	0	0.2	0	0	0	KWCS
0.4	2.5	6.5	4.0	2.0	2.5	3.5	4.0	31.9	0	3.5	0	1.5	2.5	KBYU
4.3	2.2	0.5	1.4	4.4	2.6	5.5	4.0	27.1	1.2	0	0	1.4	6.2	KUED
2.5	3.0	1.2	0	3.0	14.2	0	0.2	26.0	0	0	0	1.5	0	WETK
0	0	0	0	0	0	0	0	0	0	0	0	0	0	WHRO
6.2	0.5	0.8	0	1.0	0	2.4	0	15.8	0	2.4	1.0	1.0	0	WCVE
6.2	0.5	0.8	0	1.0	0	2.4	0	15.8	0	2.4	1.0	1.0	0	WCVW
7.5	3.3	0	0	3.5	3.5	6.0	0	27.8	0	3.5	1.5	1.0	0	WBRA

Station	Location	Color Hours	% Color	Color ITV Hours	Science	Social Science	Art	Humanities
WOUB	Ohio, Athens	0	0	0	4.8	1.3	1.4	2.5
WBGU	Bowling Green	0	0	0	2.2	0.2	1.0	2.1
WCET	Cincinnati	1.9	5.6	0.2	0.5	0	0	0
WVIZ	Cleveland	2.0	2.9	0	8.5	1.5	1.0	4.7
WOSU	Columbus	0	0	0	19.2	0.5	2.8	0
WGSF	Newark	0	0	0	7.4	0	3.0	0
WMUB	Oxford	0	0	0	1.3	1.9	0	0.3
WGTE	Toledo	0	0	0	0.9	2.1	0	0
KETA KOED	Oklahoma, Oklahoma ETV Network	0	0	0	1.7	0.8	2.6	7.0
KOAC	Oregon, Corvallis	0	0	0	1.5	2.8	4.0	0
KOAP	Portland	0	0	0	1.5	2.8	4.0	0
WLVT	Pennsylvania, Bethlehem	0.5	0.8	0	3.5	3.2	1.7	2.3
WQLN	Erie	0	0	0	1.2	2.3	0	0
WITF	Hershey	0	0	0	4.0	5.6	1.0	0.3
WHYY	Philadelphia	23.4	28.3	6.7	5.0	3.9	0	0.6
WQED	Pittsburgh	8.3	9.7	0	6.9	2.1	1.0	2.5
WVIA	Scranton	0	0	0	1.9	1.3	0.7	0.7
WPSX	University Park	0	0	0	5.5	3.2	7.3	2.7
WIPM	Puerto Rico, Mayaquez	–	–	–	–	–	–	–
WIPR	San Juan	–	–	–	–	–	–	–
WSBE	Rhode Island, Providence	2.5	6.3	0	1.5	4.0	1.0	0.3
WRLK, WITV, WNTV, WEBA, WJPM	South Carolina, South Carolina ETV Network	0	0	0	24.3	5.5	0.5	0
KBHE	South Dakota, Rapid City	–	–	–	–	–	–	–
KUSD	Vermillion	–	–	–	–	–	–	–
WSJK	Tennessee, Knoxville	3.9	7.5	0	6.3	8.0	1.8	0
WKNO	Memphis	6.8	6.4	0	3.8	1.0	5.1	0
WDCN	Nashville	0	0	0	11.8	13.6	0	0
KLRN	Texas, Austin	12.2	11.6	2.0	6.1	2.5	3.3	0
KERA	Dallas	0	0	0	3.2	0	0	0
KUHT	Houston	0	0	0	0.8	0.7	0.3	0
KTXT	Lubbock	0	0	0	0	0	0	0
KRET	Richardson	0	0	0	0.5	0.5	0.5	0
KUSU	Utah, Logan	0	0	0	0.6	0.3	2.8	0
KWCS	Ogden	0.5	1.6	0.5	6.1	3.5	2.0	2.9
KBYU	Provo	6.4	14.6	0	0	4.5	0	0
KUED	Salt Lake City	0	0	0	4.1	14.6	3.3	2.0
WETK, WVTB, WVTA, WVER	Vermont, Vermont Educational TV Network	0	0	0	3.6	2.6	1.3	0
WHRO	Virginia, Norfolk	0	0	0	4.8	6.2	0	0.3
WCVE	Richmond	3.0	6.3	0	9.4	0.4	2.0	0
WCVW	Richmond	3.0	6.3	0	9.4	0.4	2.0	0
WBRA	Roanoke	16.3	27.1	10.5	4.4	5.0	3.8	0

UHF-VHF
Ohio—Virginia 2

Hours of ITV In Subject Areas							Hours of ITV for Educational Levels							
Math	Health, Safety	Phys. Ed.	Foreign Lang.	Lang. Arts	Music	Other	Pre-Kindergarten	K-3 Grade	4-6 Grade	7-9 Grade	10-12 Grade	College	Post-Grad, Adult ITV	Station
0	0	0.7	0	1.6	1.6	0.2	0	3.6	5.7	2.4	1.0	1.5	0	WOUB
0	0	0	0	1.5	0.3	2.7	0	2.1	1.6	0.2	1.8	4.3	0	WBGU
0	0	0	0	0.2	0	2.4	0	0.2	0	0	0.5	0	0	WCET
0	0	0	2.0	5.2	2.8	5.5	0	7.0	12.1	6.7	3.7	0	1.5	WVIZ
9.6	0	1.9	0	7.4	2.2	3.8	0	5.4	9.0	4.0	2.5	26.2	0	WOSU
0	0	1.5	0.5	4.4	3.2	8.3	0.2	9.6	10.2	4.8	2.5	0	0	WGSF
0	0	0	0	1.5	0	5.4	0	0	1.6	1.9	2.4	0	1.0	WMUB
2.0	0	0	2.6	5.9	0.7	0	2.5	3.2	7.2	2.3	1.0	0	0.5	WGTE
1.7	0.8	1.0	11.5	0	3.0	4.8	0	5.3	5.2	2.0	13.5	1.0	0	KETA
0	0.8	1.7	4.0	0	2.0	0.3	0	3.5	9.0	1.2	0	0	2.7	KOAC
0	0.8	1.7	4.0	0	2.0	0.3	0	3.5	9.0	1.2	0	0	2.7	KOAP
1.7	0	0	5.2	2.9	2.5	1.3	0	4.5	7.5	4.9	6.9	0	1.5	WLVT
0	0.5	0	1.3	7.2	0.5	0	0	5.5	3.8	0	0.5	0	3.2	WOLN
0	0	0	0	1.9	1.3	0	0.3	0.3	2.6	7.1	3.9	0	0	WITF
1.7	0	0	3.6	8.3	1.0	4.2	0	3.2	7.6	6.3	7.1	1.4	3.4	WHYY
3.2	1.0	0	0	6.1	1.0	1.0	0	3.6	11.3	1.3	6.8	0	2.6	WQED
2.0	0	0	0	2.0	1.4	4.4	1.9	1.5	2.7	3.2	5.1	0	0	WVIA
2.3	1.4	1.0	2.4	6.1	1.8	2.6	0	5.0	11.2	2.8	9.0	0	7.7	WPSX
–	–	–	–	–	–	–	–	–	–	–	–	–	–	WIPM
–	–	–	–	–	–	–	–	–	–	–	–	–	–	WIPR
1.5	0.8	0	0	4.6	1.2	4.5	3.5	2.5	5.0	1.3	2.2	0	4.8	WSBE
58.8	0	0	12.1	2.3	0	0	0	0	0	38.3	60.1	1.4	4.0	WRLK
–	–	–	–	–	–	–	–	–	–	–	–	–	–	KBHE
–	–	–	–	–	–	–	–	–	–	–	–	–	–	KUSD
4.0	0	0	0	2.4	4.7	2.2	0	7.1	10.8	5.4	6.1	0	0	WSJK
1.3	0	0	0	1.3	4.9	0	0	4.7	12.2	0	0	0.5	0	WKNO
0	2.1	0	0	0	0.5	5.8	0.8	4.2	4.7	11.2	12.5	0.5	0	WDCN
0	0	0	6.0	9.7	1.7	2.3	0	8.8	12.1	7.7	6.0	0	0	KLRN
0	0	0	8.0	5.8	0	9.5	1.5	2.8	7.8	3.5	8.5	0	1.5	KERA
0.7	0	0	0.2	1.8	0.8	0	0	1.7	2.1	0.7	1.0	0	0	KUHT
1.0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	KTXT
0	0	0	0.5	0.8	0.2	0	0	1.2	1.0	0	0	0	0.8	KRET
0	0	1.3	0	0	1.3	3.0	0	3.2	10.6	0.5	0	0	0	KUSU
0	0.5	2.8	0	0.9	0	3.8	0	8.0	11.6	2.5	0.5	0	0	KWCS
0	0	1.5	0	0	0	0	0	0	0	0	0	4.5	0	KBYU
2.9	0	1.2	1.9	9.2	1.5	4.5	0	7.2	13.8	7.8	8.5	5.8	2.1	KUED
0.3	0.3	0	1.3	3.4	0	1.5	0	3.8	3.7	4.3	2.8	0	0	WETK
2.0	0	0	2.0	0.8	0	1.2	0	1.5	5.2	7.2	3.3	0	1.1	WHRO
3.6	1.1	0	0	1.4	2.0	7.6	0	2.8	9.5	4.3	6.3	0.8	3.8	WCVE
3.6	1.1	0	0	1.4	2.0	7.6	0	2.8	9.5	4.3	6.3	0.8	3.8	WCVW
3.7	0	0	0	6.8	5.3	0.5	0	5.4	12.1	1.0	6.0	0.5	3.0	WBRA

					Program Hours From Different Sources				
Station	Location	Local	NET	NITC	State Net-works	Re-gional Net-works	Com-mer-cial TV	Inde-pendent Sources	Direct Ex-change
WOUB	Ohio, Athens	6.5	11.0	0	15.4	2.0	0	1.3	0
WBGU	Bowling Green	9.0	9.6	0.8	3.4	0	0	1.2	0.5
WCET	Cincinnati	4.4	16.0	0	0	4.3	0.5	0.7	0
WVIZ	Cleveland	30.2	22.0	0.7	2.5	0	0.5	4.5	4.7
WOSU	Columbus	41.5	24.3	0	4.6	3.6	0	5.3	0
WGSF	Newark	9.1	17.1	0	5.0	0	0	4.2	0
WMUB	Oxford	5.5	15.7	0	0	5.1	0	0	1.0
WGTE	Toledo	7.0	15.9	0	0	5.2	0	1.3	0.5
KETA, KOED	Oklahoma, Oklahoma ETV Network	34.0	11.2	0	0	0	0	4.0	0
KOAC	Oregon, Corvallis	18.9	17.5	1.8	5.0	2.0	0	0.5	2.2
KOAP	Portland	18.9	17.5	1.8	5.0	2.0	0	0.5	2.2
WLVT	Pennsylvania, Bethlehem	4.4	14.9	0	0	27.4	0	8.7	0.5
WQLN	Erie	2.0	17.6	5.5	0	0	0	0	0
WITF	Hershey	1.1	19.5	0	0	7.9	0	1.0	6.9
WHYY	Philadelphia	24.5	21.3	0	0	27.4	5.0	1.2	0.5
WQED	Pittsburgh	23.4	30.0	0.5	0	14.7	1.8	6.7	0
WVIA	Scranton	0.5	11.8	0	5.8	18.2	0	2.0	1.0
WPSX	University Park	18.5	20.1	0.7	1.9	14.7	0	0	1.0
WIPM	Puerto Rico, Mayaquez	–	–	–	–	–	–	–	–
WIPR	San Juan	–	–	–	--	–	–	–	–
WSBE	Rhode Island, Providence	1.5	13.5	0	0	22.3	0	1.0	1.5
WRLK, WITV, WNTV, WEBA, WJPM	South Carolina, South Carolina ETV Network	7.6	0	0	97.6	0	0	0	0
KBHE	South Dakota, Rapid City	–	–	–	–	–	–	–	–
KUSD	Vermillion	–	–	–	–	–	–	–	–
WSJK	Tennessee, Knoxville	10.9	15.3	0	22.6	0	0	1.8	0.5
WKNO	Memphis	25.3	39.4	0	0	0	0	15.0	3.4
WDCN	Nashville	32.3	16.0	0	0	1.8	1.0	5.0	4.5
KLRN	Texas, Austin	34.8	27.8	1.7	0	2.8	0.5	4.2	1.5
KERA	Dallas	24.0	30.3	0	0	0	1.0	6.2	3.0
KUHT	Houston	3.2	11.5	1.3	0	1.8	1.0	1.5	2.5
KTXT	Lubbock	1.5	13.8	0	0	0	0	0.5	3.4
KRET	Richardson	3.0	0	0	0	0	0	0	0
KUSU	Utah, Logan	5.9	14.8	0	9.4	0	0	1.9	0.5
KWCS	Ogden	15.4	3.0	1.9	1.6	0	0	6.0	0
KBYU	Provo	26.5	0	0	0	4.0	2.9	4.5	1.5
KUED	Salt Lake City	37.8	17.2	0	0	3.2	0	1.7	1.5
WETK, WVTB, WVTA, WVER	Vermont, Vermont Educational TV Network	7.2	8.4	0	0.7	9.8	0	8.2	5.8
WHRO	Virginia, Norfolk	16.1	1.0	0	0	0	0	0	0.2
WCVE	Richmond	33.8	13.1	0	0	0	0	0	0
WCVW	Richmond	33.8	13.1	0	0	0	0	0	0
WBRA	Roanoke	18.7	23.5	0	0	0	0	0.5	8.8

Program Hours Obtained in Different Forms

ETS	GPNITL MPATI Etc.	Other	Local Live	Local Video Tape	Local Film, First Run	Local Film, Rerun	NET Video Tape	NET Film	NET Inter-cnnctd	State, Re-gional Nets.	Film, Other Source	Video Tape, Other Source	Station
0.9	0	0	3.0	4.2	0	0	7.0	4.0	0	12.7	1.8	4.4	WOUB
2.4	3.8	0	3.9	5.1	0	0	8.1	2.0	0	0	1.7	10.0	WBGU
4.6	0	3.6	0	3.4	0	0	15.8	0.2	0	4.1	1.7	9.0	WCET
3.0	1.3	0	5.5	24.8	0	0	20.8	0	2.0	2.5	5.1	8.9	WVIZ
4.4	9.6	0	29.2	12.0	0	0	18.2	0	0	0	5.8	24.0	WOSU
4.0	20.9	4.0	1.2	5.1	1.0	0.2	1.6	0	0	54.4	0.7	0	WGSF
0.5	3.4	1.0	0.5	4.0	0	0	12.7	1.0	2.0	1.0	0	10.0	WMUB
0.5	6.2	4.7	0	7.3	0	0	12.0	0	0	3.8	1.2	15.5	WGTE
1.5	0	0	34.0	0	0	0	11.2	0	0	0	4.0	1.5	KETA
8.0	0	9.2	7.8	7.9	0	1.5	15.0	2.5	0	0	7.2	23.0	KOAC
8.0	0	9.2	7.8	7.9	0	1.5	15.0	2.5	0	0	7.2	23.0	KOAP
1.4	0	2.9	3.0	0	0	0	14.4	0	0.5	0	7.2	35.2	WLVT
2.4	8.5	0.4	0	2.0	0	0	14.8	2.3	0	0	0.4	16.4	WQLN
2.1	6.0	0	1.0	22.5	1.9	0	2.7	0	3.6	20.3	0	2.3	WITF
0	2.7	0	22.4	2.6	0	0	2.4	7.1	4.0	25.2	0.9	18.0	WHYY
1.4	4.1	2.0	0	22.7	0.8	0	22.5	6.0	2.0	0	2.4	28.4	WQED
0.5	0	1.0	0.5	0	0	0	7.9	1.5	2.5	0.5	3.4	24.5	WVIA
4.5	10.7	5.1	6.8	0	0	0	17.6	0	0	0	10.4	39.9	WPSX
–	–	–	–	–	–	–	–	–	–	–	–	–	WIPM
–	–	–	–	–	–	–	–	–	–	–	–	–	WIPR
0	0	0	1.5	0	0	0	4.0	1.0	8.5	3.2	1.0	20.6	WSBE
0	1.6	1.8	0.3	104.6	0	0	0	0	0	0	0	3.7	WRLK
–	–	–	–	–	–	–	–	–	–	–	–	–	KBHE
–	–	–	–	–	–	–	–	–	–	–	–	–	KUSD
1.0	0	0	0	11.3	0	0	11.0	4.4	0	0	1.8	23.6	WSJK
13.1	0	0.5	0.5	24.7	0	0	43.1	6.4	0	0	12.3	19.7	WKNO
2.5	2.5	0	0	33.8	0	0	15.5	0	0	0	5.2	11.0	WDCN
8.0	9.3	14.2	9.8	26.8	0	0	24.1	1.2	2.0	0	11.9	28.9	KLRN
3.0	0	0	19.8	10.2	0	0	23.0	1.2	0	0	6.0	7.2	KERA
3.5	1.4	0	0	3.2	0	0	10.5	1.0	0	0	1.8	11.2	KUHT
3.4	1.0	2.0	1.5	0	0	0	11.8	2.0	0	0	1.4	8.8	KTXT
0	0	0	0.8	2.2	0	0	0	0	0	0	0	0	KRET
0.7	0	0	2.0	3.8	0.1	0	11.6	3.2	0	0	1.9	10.6	KUSU
0.7	0	0	11.9	4.4	0	0.3	2.5	0.5	0	2.6	6.0	0.3	KWCS
0	0	4.5	18.0	8.5	0	0	0	0	0	0	9.0	8.4	KBYU
6.3	9.9	3.6	5.4	31.9	1.7	0	14.7	1.0	2.0	0	0	24.6	KUED
0	0	0.3	0	7.2	0	0	6.0	0	16.7	0	0.6	10.5	WETK
0	0.9	0	10.8	5.3	0	0	0.5	0.5	0	0	0	1.2	WHRO
0	0.3	0.5	2.0	27.9	0	0	12.6	0.5	3.0	0	0.2	1.6	WCVE
0	0.3	0.5	2.0	27.9	0	0	12.6	0.5	3.0	0	0.2	1.6	WCVW
1.0	7.3	0.5	0	18.0	0	0	15.5	6.5	0	0	0.5	19.8	WBRA

Station	Location	Total Bdcst. Hours	Gen. Prgm. Hours	ITV Hours	% ITV	Pub. Af-fairs
WETA	Washington, D.C.	80.2	59.2	21.0	26.2	16.6
KWSC	Washington, Pullman	41.2	40.5	0.7	1.6	9.4
KCTS	Seattle	69.9	35.7	34.2	48.9	9.0
KSPS	Spokane	42.8	26.4	16.4	38.3	4.0
KTPS	Tacoma	42.3	19.3	23.0	54.4	3.2
KPEC	Tacoma	30.0	12.1	17.9	59.8	4.9
KYVE	Yakima	54.1	25.2	28.9	53.5	8.3
WHA	Wisconsin, Madison	72.1	59.3	12.8	17.7	16.7
WMVT	Milwaukee	16.8	11.8	5.0	29.8	0.5
WMVS	Milwaukee	67.8	58.2	9.2	13.5	14.0

Washington, D.C.—Wisconsin 1

Hours of General Programming in Subject Areas								Hours of General Programming for Intended Audiences						
Cultural	Science	Soc. Science	Sports	Skills	Entertainment	Children's Prgms	Adult Educ.	Gen. Aud.	Pre-Kindergarten	K-6 Grade	6-12 Grade	Women	Other Spec. Audiences	Station
19.6	3.1	0.5	0	9.8	0	10.3	0.5	48.7	1.0	6.6	2.9	0.5	0.5	WETA
8.1	2.0	1.5	0	3.0	6.8	7.2	1.5	32.2	3.2	4.0	0	0	0	KWSC
5.9	3.5	2.3	0	2.0	0	5.0	8.0	33.4	0.5	1.8	0	0	0	KCTS
2.5	0.5	1.8	0	1.5	3.9	9.8	0.5	14.2	5.2	4.0	3.0	0.5	0	KSPS
8.5	1.8	1.5	0.1	2.8	5.8	1.0	0.4	10.6	5.5	3.8	0	1.5	0	KTPS
2.4	1.4	0	0	0.5	0.5	2.4	0	9.6	0	2.4	0	0	0	KPEC
6.0	3.0	0.5	0	3.1	0.2	4.0	0	19.3	0	4.8	0	1.0	0	KYVE
10.2	2.0	2.5	0	3.0	5.6	16.3	3.0	38.5	0.7	16.0	0.5	2.5	1.0	WHA
0.5	1.0	0	0	5.2	3.5	0	1.0	9.0	0	0	0.5	1.2	3.0	WMVT
16.0	1.0	0	0.5	4.2	13.9	9.0	0.2	43.4	10.0	4.2	0	2.0	0	WMVS

Station	Location	Color Hours	% Color	Color ITV Hours	Science	Social Science	Art	Humanities
WETA	Washington, D.C.	11.9	14.9	0.5	2.6	6.0	0.6	2.3
KWSC	Washington, Pullman	0	0	0	0	0	0	0
KCTS	Seattle	0	0	0	8.3	2.3	3.5	3.7
KSPS	Spokane	0.2	0.4	0.2	5.5	0	2.3	0
KTPS	Tacoma	0	0	0	2.3	2.5	2.3	2.0
KPEC	Tacoma	0	0	0	3.6	1.6	2.2	0
KYVE	Yakima	0	0	0	5.0	0	3.5	0
WHA	Wisconsin, Madison	0.5	0.7	0	5.8	0	0	1.1
WMVT	Milwaukee	1.0	6.0	0	3.0	0	0	0
WMVS	Milwaukee	15.9	23.5	0.5	2.6	1.2	0.8	0

UHF-VHF

Washington, D.C.—Wisconsin 2

Hours of ITV In Subject Areas							Hours of ITV for Educational Levels							
Math	Health, Safety	Phys. Ed.	Foreign Lang.	Lang. Arts	Music	Other	Pre-Kindergarten	K-3 Grade	4-6 Grade	7-9 Grade	10-12 Grade	College	Post-Grad, Adult ITV	Station
0	0	0	3.5	2.9	1.5	1.5	1.2	3.8	10.7	1.5	2.5	0	1.0	WETA
0	0	0	0.7	0	0	0	0	0	0.7	0	0	0	0	KWSC
0	0	0	5.8	3.6	4.5	2.5	0	7.9	14.2	1.3	2.5	3.0	5.2	KCTS
0	0	0	2.5	0	2.2	3.4	0.8	5.7	3.4	1.5	4.5	0	2.3	KSPS
0	0	0	3.7	3.8	1.7	4.7	1.0	5.7	4.3	6.0	4.5	0	1.5	KTPS
0	4.1	0	0	1.3	4.3	0.9	0	4.9	5.2	3.3	3.6	0	0.9	KPEC
0	0	0	4.3	2.6	4.5	9.0	0	7.9	11.7	1.3	1.5	0	6.5	KYVE
3.0	0	0	0	0.7	0.7	1.5	0	1.8	5.5	0	0	4.5	0	WHA
0	0	0	0	0	0	2.5	0	0	0	0	0	2.5	2.5	WMVT
2.5	0	0.3	0.5	0.5	0.2	0	0.2	1.8	3.8	2.1	0	0	0.8	WMVS

						Program Hours From Different Sources			
Station	Location	Local	NET	NITC	State Networks	Regional Networks	Commercial TV	Independent Sources	Direct Exchange
WETA	Washington, D.C.	12.7	28.0	0	0	20.4	0.5	5.6	4.4
KWSC	Washington, Pullman	2.7	22.1	0	0	4.0	0.9	0.5	0
KCTS	Seattle	38.2	15.9	0	0	2.5	1.5	0.8	4.0
KSPS	Spokane	13.4	16.2	0	0	0	1.6	0	0
KTPS	Tacoma	16.2	17.4	0	0	0	0	0.9	1.0
KPEC	Tacoma	13.2	6.8	0	0	3.9	0	5.4	0
KYVE	Yakima	8.5	1.0	0	42.8	0	0	0.8	0
WHA	Wisconsin, Madison	13.9	40.1	0	0	1.5	0	1.8	0
WMVT	Milwaukee	3.2	0	0	0	2.5	0	0	3.5
WMVS	Milwaukee	18.9	21.5	0.2	0	6.5	1.0	2.0	0.5

UHF-VHF

Washington, D.C.—Wisconsin 3

Program Hours Obtained in Different Forms

ETS	GPNITL MPATI Etc.	Other	Local Live	Local Video Tape	Local Film, First Run	Local Film, Rerun	NET Video Tape	NET Film	NET Inter-cnnctd	State, Regional Nets.	Film, Other Source	Video Tape, Other Source	Station
7.1	0	1.4	2.4	11.8	1.0	0	11.6	3.5	0	14.4	4.8	3.7	WETA
4.2	0	5.8	0.7	2.0	0	0	18.6	1.5	0	1.0	2.2	14.2	KWSC
4.0	3.0	0	19.5	12.5	0	6.0	12.4	3.5	0	0	1.0	15.0	KCTS
0.5	0	11.0	1.5	12.9	0	0	14.2	2.5	0	0	4.2	7.0	KSPS
3.8	0.7	2.3	15.8	0.8	0	0	10.0	6.9	0	0	4.2	4.5	KTPS
0	0.6	0	2.8	10.5	0	0	6.8	0	0	0	5.4	4.6	KPEC
0	0	1.0	1.5	7.0	0	0	11.2	0	0	1.5	7.6	25.2	KYVE
6.1	1.3	5.4	3.9	9.1	0	0	31.4	6.0	3.2	0	0.5	14.6	WHA
0	0	7.5	0.5	2.8	0	0	0	0	0	0	6.0	7.5	WMVT
3.0	0	13.7	7.8	11.4	0	0	19.0	0.5	0	0	5.0	21.2	WMVS

Location	Total Bdcst. Hours	Gen. Prgm. Hours	ITV Hours	% ITV	Pub. Af-fairs	Cul-tural
Ala., Huntsville Public Schools	51.9	0.5	51.4	99.0	0	0
Calif., Fresno County Dept. of Education	29.7	0	29.7	100	0	0
San Francisco, U. Cal. Med. Center	27.5	2.9	24.6	89.3	0	0
Fla., Ft. Lauderdale, Broward County Bd. of Public Instruction	11.4	0	11.4	100	0	0
Miami, Dade County Public Schools	25.5	0	25.5	100	0	0
Miami, Diocese of Miami	29.2	0	28.7	98.3	0	0
Ga., Atlanta, Community Medical TV System	18.0	0	0	0	0	0
Ill., Pekin, Bradley University	6.5	0	6.5	100	0	0
Peoria, Bradley University	35.0	0	35.0	100	0	0
Sterling Township High School	11.0	0	11.0	100	0	0
Winnetka, New Trier Township High School	45.1	0	45.1	100	0	0
Michigan, Alpena Board of Education	5.2	0	5.2	100	0	0
Minnesota, Osseo, District 279	16.6	0	16.6	100	0	0
Missouri, Columbia, University of Missouri	73.1	1.1	72.0	98.5	0.3	0
New York, Brooklyn Diocesan TV System	73.9	0.1	73.8	99.9	0	0
Franklin Square, Central H.S. Dist. 2	36.1	0	36.1	100	0	0
Mineola, Union Free School District 10	15.4	0	15.4	100	0	0
Newburgh City School District	42.3	31.8	10.5	24.8	0	0
N. Massapequa, Plainedge Schools	5.3	0	5.3	100	0	0
Plainview, Central School Dist. 4	26.9	0	26.9	100	0	0
Ohio, Parma Bd. of Education	12.0	0	12.0	100	0	0
Texas, Freeport, Brazosport Ind. School District	29.7	0	29.7	100	0	0
Mesquite Independent School District	44.3	0	44.3	100	0	0
San Antonio, Edgewood Ind. School District	9.7	0	9.7	100	0	0

Hours of General Programming in Subject Areas							Hours of General Programming for Intended Audiences						
Science	Soc. Science	Sports	Skills	Entertainment	Children's Prgms	Adult Educ.	Gen. Aud.	Pre-Kindergarten	K-6 Grade	6-12 Grade	Women	Other Spec. Audiences	Location
0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	Huntsville
0	0	0	0	0	0	0	0	0	0	0	0	0	Fresno
3.0	0	0	0	0	0	0	0	0	0	1.0	0	2.0	San Francisco
0	0	0	0	0	0	0	0	0	0	0	0	0	Ft. Lauderdale
0	0	0	0	0	0	0	0	0	0	0	0	0	Miami
0	0	0	0	0	0	0	0	0	0	0	0	0	Miami
0	0	0	0	0	0	0	0	0	0	0	0	18.0	Atlanta
0	0	0	0	0	0	0	0	0	0	0	0	0	Pekin
0	0	0	0	0	0	0	0	0	0	0	0	0	Peoria
0	0	0	0	0	0	0	0	0	0	0	0	0	Sterling
0	0	0	0	0	0	0	0	0	0	0	0	0	Winnetka
0	0	0	0	0	0	0	0	0	0	0	0	0	Alpena
0	0	0	0	0	0	0	0	0	0	0	0	0	Osseo
0	0	0	0.8	0	0	0	0.8	0	0	0	0.3	0	Columbia
0	0	0	0	0	0	0	0	0	0	0	0	0	Brooklyn
0	0	0	0	0	0	0	0	0	0	0	0	0	Franklin Square
0	0	0	0	0	0	0	0	0	0	0	0	0	Mineola
7.8	24.0	0	0	0	0	0	31.8	0	0.3	0	0	0	Newburgh City
0	0	0	0	0	0	0	0	0	0	0	0	0	N. Massapequa
0	0	0	0	0	0	0	0	0	0	0	0	0	Plainview
0	0	0	0	0	0	0	0	0	0	0	0	0	Parma
0	0	0	0	0	0	0	0	0	0	0	0	0	Freeport
0	0	0	0	0	0	0	0	0	0	0	0	0	Mesquite
0	0.7	0	0	0	0	0	0	0	4.7	5.0	0	0	San Antonio

Location	Color Hours	% Color	Color ITV Hours	Science	Social Science	Art	Humanities
Ala., Huntsville Public Schools	0.3	0.5	0.3	14.1	21.1	0.5	0
Calif., Fresno County Dept. of Education	0	0	0	0	2.8	0	10.3
San Francisco, U. Cal. Med. Center	0	0	0	0	0	0	0
Fla., Ft. Lauderdale, Broward County Bd. of Public Instruction	0	0	0	0.7	4.5	4.4	0.5
Miami, Dade County Public Schools	0	0	0	13.9	11.5	0	0
Miami, Diocese of Miami	0	0	0	5.5	0.8	0.4	3.9
Ga., Atlanta, Community Medical TV System	0	0	0	0	0	0	0
Ill., Pekin, Bradley University	0	0	0	2.8	0.8	0	0
Peoria, Bradley University	0	0	0	12.9	7.2	0.8	2.3
Sterling Township High School	0	0	0	2.0	2.7	1.8	0
Winnetka, New Trier Township High School	7.0	15.5	7.0	3.1	23.0	0.3	7.9
Michigan, Alpena Board of Education	0	0	0	0.5	1.6	0.3	0
Minnesota, Osseo, District 279	0	0	0	0	2.4	0.3	0
Missouri, Columbia, University of Missouri	0	0	0	0	9.4	0	0
New York, Brooklyn Diocesan TV System	0	0	0	7.5	5.5	10.7	16.3
Franklin Square, Central H.S. Dist. 2	0	0	0	0	11.0	1.0	0
Mineola, Union Free School District 10	0	0	0	7.0	1.5	0	3.0
Newburgh City School District	0	0	0	2.0	7.3	0	0
N. Massapequa, Plainedge Schools	0	0	0	1.3	2.3	0	0
Plainview, Central School Dist. 4	26.9	100	26.9	1.0	4.0	0	0.6
Ohio, Parma Bd. of Education	0	0	0	2.7	2.0	1.3	0
Texas, Freeport, Brazosport Ind. School District	0	0	0	10.7	5.0	1.3	0
Mesquite Independent School District	0	0	0	14.5	9.0	0	0.3
San Antonio, Edgewood Ind. School District	0	0	0	1.7	0.7	0	0

Hours of ITV In Subject Areas							Hours of ITV for Educational Levels							
Math	Health, Safety	Phys. Ed.	Foreign Lang.	Lang. Arts	Music	Other	Pre-Kindergarten	K-3 Grade	4-6 Grade	7-9 Grade	10-12 Grade	College	Post-Grad, Adult ITV	Location
4.8	0	0	0	7.9	3.0	0	0	7.5	13.8	14.1	15.5	0	0.5	Huntsville
6.0	0	0	1.0	8.0	1.5	0	0	16.5	3.3	0	4.5	0	3.0	Fresno
0	26.6	0	0	0	0	0	0	0	0	0	0	22.1	4.5	San Francisco
0	0	0.3	0	0	0	1.0	0	0	5.9	3.0	0	0	2.5	Ft. Lauderdale
0	0	0	0	0	0	0	0	0	0	25.5	0	0	0	Miami
7.1	0	0	1.3	1.4	0.3	8.1	0	2.2	3.9	4.5	13.0	0	5.0	Miami
0	0	0	0	0	0	18.0	0	0	0	0	0	0	0	Atlanta
0	0.3	0	0	2.3	0.3	0	0	2.5	2.0	2.0	0	0	0	Pekin
2.0	1.6	0	0	5.3	0.6	2.3	0	4.4	10.9	11.8	6.7	0	1.2	Peoria
0	0	0	0	3.3	0	1.2	0	0.8	2.4	6.1	1.3	0	0	Sterling
0	0	0	0	0	0	10.9	0	5.8	0	6.2	18.7	0	14.4	Winnetka
0	0	0	0	2.5	0.3	0	0	2.2	1.5	0	0	1.0	0.5	Alpena
0	0	0	0	0.2	13.7	0	0	10.8	5.8	0	0	0	0	Osseo
0	0	0	0	7.7	0	54.1	0	0	0	0	0	72.0	0.8	Columbia
9.2	2.0	0	0	7.3	4.0	11.3	0	11.7	11.2	28.2	15.8	0	7.0	Brooklyn
0	0.7	0	8.0	1.7	2.0	8.0	0	1.0	2.0	10.7	22.4	0	0	Franklin Square
0	1.0	0	1.5	0.9	0	0.5	0	3.4	5.4	0	5.1	0	1.5	Mineola
0	0.3	0	0	0	0.7	0.3	0	3.3	3.0	3.5	0	0	0.8	Newburgh City
1.0	0	0	0	0.7	0	0	0	1.3	2.3	0.7	0	0	1.0	N. Massapequa
0	0.6	0	0	1.3	0	19.5	0	2.9	4.1	18.4	0	0	1.5	Plainview
0	0.7	0	0	0	3.3	2.0	0	0.7	8.0	0.4	1.0	0	2.0	Parma
2.0	0	0	0	9.0	0.5	1.2	0	2.5	10.3	7.7	8.0	0	1.2	Freeport
4.4	0.6	0	1.8	3.1	3,1	0	0	15.9	4.6	13.4	9.3	0	0.5	Mesquite
2.0	0	0	0	4.3	0	1.0	0	3.3	1.3	3.0	2.0	0	0	San Antonio

					Program Hours From Different Sources			
Location	Local	NET	NITC	State Net-works	Re-gional Net-works	Com-mer-cial TV	Inde-pendent Sources	Direct Ex-change
Ala., Huntsville Public Schools	28.1	0.5	3.5	16.2	0	0	0.3	0
Calif., Fresno County Dept. of Education	14.8	0	8.2	0	2.0	0	0	0
San Francisco, U. Cal. Med. Center	27.5	0	0	0	0	0	0	0
Fla., Ft. Lauderdale, Broward County Bd. of Public Instruction	9.8	0	1.3	0	0	0	0	0
Miami, Dade County Public Schools	24.5	0	0	0	0	0	0	1.0
Miami, Diocese of Miami	2.2	0	7.2	0	0	0	7.3	4.8
Ga., Atlanta, Community Medical TV System	0	0	0	0	0	0	0	0
Ill., Pekin, Bradley University	0	0	0	0	0	0	0	0
Peoria, Bradley University	0.8	0	12.9	0	0	0	3.5	7.5
Sterling Township High School	5.4	0	2.3	0	0	0	0	0
Winnetka, New Trier Township High School	18.2	0	0	0	0	0	23.0	0
Michigan, Alpena Board of Education	0.3	0	0.8	0	0	0	0	1.5
Minnesota, Osseo, District 279	16.6	0	0	0	0	0	0	0
Missouri, Columbia, University of Missouri	72.3	0	0	0	0	0	0.8	0
New York, Brooklyn Diocesan TV System	37.6	0	1.5	13.6	0	0	0.5	1.7
Franklin Square, Central H.S. Dist. 2	25.1	0	0	0	0	0	5.3	1.7
Mineola, Union Free School District 10	3.2	0	0	0	0	0	0	4.5
Newburgh City School District	0.5	0	1.0	0	0	31.8	0	0
N. Massapequa, Plainedge Schools	0	0	0	5.3	0	0	0	0
Plainview, Central School Dist. 4	0	0	0	0	0	0	0	0
Ohio, Parma Bd. of Education	12.0	0	0	0	0	0	0	0
Texas, Freeport, Brazosport Ind. School District	0.2	0	0	0	0	0	0	0
Mesquite Independent School District	18.7	0	0	0	0	0	0	3.7
San Antonio, Edgewood Ind. School District	9.7	0	0	0	0	0	0	0

ITFS 3

Program Hours Obtained in Different Forms

ETS	GPNITL MPATI Etc.	Other	Local Live	Local Video Tape	Local Film, First Run	Local Film, Rerun	NET Video Tape	NET Film	NET Inter-cnnctd	State, Re-gional Nets.	Film, Other Source	Video Tape, Other Source	Location
0	2.3	0	1.5	24.0	1.9	3.2	0	0	0.0	14.5	0	5.8	Huntsville
0	4.7	0	.8	16.3	0	0	0	0	0	0	0	12.5	Fresno
0	0	0	21.8	5.8	0	0	0	0	0	0	0	0	San Francisco
0	0	0	0	9.8	0	0	0	0	0	0	0	1.3	Ft. Lauderdale
0	0	0	0	24.5	0	0	0	0	0	0	0	1.0	Miami
0	7.0	0.3	0	2.1	0	0	0	0	0	0	7.7	18.9	Miami
0	0	0	0	0	0	0	0	0	0	0	0	0	Atlanta
0	0	6.5	0	6.5	0	0	0	0	0	0	0	0	Pekin
0	17.8	0.8	0	0.8	0	0	0	0	0	0	3.5	30.7	Peoria
0	3.3	0	1.3	4.2	0	0	0	0	0	0	0	5.6	Sterling
0	3.7	0	0	18.2	0	0	0	0	0	0	23.0	3.7	Winnetka
0	2.7	0	0	0.3	0	0	0	0	0	0	0	4.9	Alpena
0	0	0	0	16.6	0	0	0	0	0	0	0	0	Osseo
0	0	0	0	73.1	0	0	0	0	0	0	0	0	Columbia
0	17.0	2.0	0.1	33.0	0	0	0	0	0	0	5.5	35.3	Brooklyn
0	4.0	0	6.2	19.9	0	0	0	0	0	0	7.7	2.3	Franklin Square
0	0	7.7	0	11.9	0	0	0	0	0	0	3.5	0	Mineola
0	9.0	0	0	0.5	0	0	0	0	0	0	0	41.8	Newburgh City
0	0	0	0	0	0	0	0	0	0	0	0	5.3	N. Massapequa
0	0	26.9	3.8	7.2	0	0	0	0	16.0	0	0	0	Plainview
0	0	0	0	12.0	0	0	0	0	0	0	0	0	Parma
0	0	29.5	0.2	0	0	0	0	0	0	29.0	0.5	0	Freeport
0	0	21.9	1.5	16.7	0	0	0	0	0	0	26.1	0	Mesquite
0	0	0	9.7	0	0	0	0	0	0	0	0	0	San Antonio

Location	Total Bdcst. Hours	Gen. Prgm. Hours	ITV Hours	% ITV	Pub. Affairs	Cultural
Arizona, Tucson, Palo Verde High School	6.2	0	6.2	100	0	0
Calif., Campbell Union High School District	4.3	0	4.3	100	0	0
Fresno State College	4.5	0	4.5	100	0	0
Lennox School District	1.1	0	1.1	100	0	0
San Bernardino Valley College	14.5	0	14.5	100	0	0
San Jose State College	73.9	1.8	72.1	97.6	0.8	1.0
Colo., Denver, University of Colorado Medical Center	13.1	0	13.1	100	0	0
La Junta Public Schools	11.8	0	11.8	100	0	0
Conn., Darien Public School System	18.3	1.0	17.3	94.5	1.0	0
Delaware, Dover Delaware ETV Network	73.2	0	73.2	100	0	0
Fla., St. Petersburg Junior College	11.5	0	11.5	100	0	0
Ill., Harvey, Thornton High School	7.9	0	7.9	100	0	0
River Forest, Concordia Teachers College	3.0	0	3.0	100	0	0
Indiana, Marion Community Schools	7.1	0	7.1	100	0	0
Kansas, Pittsburg, Kansas State College	7.1	0	7.1	100	0	0
Louisiana, New Orleans, Louisiana State University Medical Center	19.5	11.7	7.8	40.2	0	0
Massachusetts, Framingham, Winch. Park Junior High School	20.5	1.0	19.5	95.1	1.0	0
Michigan, Ann Arbor, University of Michigan	–	–	–	–	–	–
Marquette, North Michigan University	58.7	23.8	34.9	59.5	6.1	8.9
Minnesota, Marshall, Ind. School District 413	7.7	0	7.7	100	0	0
Missouri, Kirksville Public Schools	61.8	2.0	59.8	96.8	2.0	0
Warrensburg, Central Missouri State College	14.7	0	14.7	100	0	0
West Plains	5.3	2.1	3.2	60.3	0	0
Nebraska, Lincoln, University of Nebraska	33.8	0	30.8	91.1	0	0
Omaha, Creighton University	3.2	0	3.2	100	0	0
New Jersey, Morristown ETV	–	–	–	–	–	–
New York, Elmira, Community Cable System	10.1	0	10.1	100	0	0
Greene Central School	4.5	0	4.5	100	0	0
Morrisville, SUNY Ag. and Tech. College	–	–	–	–	–	–
New York, Columbia Univ. Sch. of Dental and Oral Surg.	0.9	0.0	0.9	100	0	0
Penn Yan Central Schools	–	–	–	–	–	–
Williamsville Central Schools	44.0	0	44.0	100	0	0
Ohio, Athens, Ohio University	33.9	0	33.9	100	0	0
Kent State University	83.5	0	83.5	100	0	0
Pennsylvania, Philadelphia, Temple University	3.5	0	3.5	100	0	0
University Park, Penn. State University	–	–	–	–	–	–
Texas, Austin, Texas Educational Microwave Project	3.0	0	3.0	100	0	0
Lubbock, Texas Technological College	8.2	0	8.2	100	0	0
San Antonio, Texas Educational Microwave Project	16.2	0.5	15.7	97.1	0	0.5
Utah, Provo, Brigham Young University	18.3	0	18.3	100	0	0
Vermont, Burlington, Medical Center Hospital	–	–	–	–	–	–
Virginia, Richmond, Union Theological Seminary	15.0	0	15.0	100	0	0
Washington, D.C., Georgetown University Medical School	11.0	1.0	10.0	90.9	0	0

Hours of General Programming in Subject Areas							Hours of General Programming for Intended Audiences						
Science	Soc. Science	Sports	Skills	Entertainment	Children's Prgms	Adult Educ.	Gen. Aud.	Pre-Kindergarten	K-6 Grade	6-12 Grade	Women	Other Spec. Audiences	Location
0	0	0	0	0	0	0	0	0	0	0	0	0	Tucson
0	0	0	0	0	0	0	0	0	0	0	0	0	Campbell
0	0	0	0	0	0	0	0	0	0	0	0	0	Fresno
0	0	0	0	0	0	0	0	0	0	0	0	0	Lennox
0	0	0	0	0	0	0	0	0	0	0	0	0	San Bernardino
0	0	0	0	0	0	0	1.8	0	0	0	0	0	San Jose
0	0	0	0	0	0	0	0	0	0	0	0	0	Denver
0	0	0	0	0	0	0	0	0	0	0	0	0	La Junta
0	0	0	0	0	0	0	1.0	0	0	0	0	0	Darien
0	0	0	0	0	0	0	0	0	0	0	0	0	Dover
0	0	0	0	0	0	0	0	0	0	0	0	0	St. Petersburg
0	0	0	0	0	0	0	0	0	0	0	0	0	Harvey
0	0	0	0	0	0	0	0	0	0	0	0	0	River Forest
0	0	0	0	0	0	0	0	0	0	0	0	0	Marion
0	0	0	0	0	0	0	0	0	0	0	0	0	Pittsburg
0.5	0	0	7.2	0	0	4.0	0	0	0	0	0	11.7	New Orleans
0	0	0	0	0	0	0	0	0	0	1.0	0	0	Framingham
–	–	–	–	–	–	–	–	–	–	–	–	–	Ann Arbor
0	1.0	0	0	3.0	4.8	0	19.0	0	4.8	0	0	0	Marquette
0	0	0	0	0	0	0	0	0	0	0	0	0	Marshall
0	0	0	0	0	0	0	0	0	1.7	0.3	0	0	Kirksville
0	0	0	0	0	0	0	0	0	0	0	0	0	Warrensburg
0	0	0	0	2.1	0	0	0	0	0	0	0	0	West Plains
0	0	0	0	0	0	0	0	0	0	0	0	0	Lincoln
0	0	0	0	0	0	0	0	0	0	0	0	0	Omaha
–	–	–	–	–	–	–	–	–	–	–	–	–	Morristown
0	0	0	0	0	0	0	0	0	0	0	0	0	Elmira
0	0	0	0	0	0	0	0	0	0	0	0	0	Greene
–	–	–	–	–	–	–	–	–	–	–	–	–	Morrisville
0	0	0	0	0	0	0	0	0	0	0	0	0	New York
–	–	–	–	–	–	–	–	–	–	–	–	–	Penn Yan
0	0	0	0	0	0	0	0	0	0	0	0	0	Williamsville
0	0	0	0	0	0	0	0	0	0	0	0	0	Athens
0	0	0	0	0	0	0	0	0	0	0	0	2.0	Kent
0	0	0	0	0	0	0	0	0	0	0	0	0	Philadelphia
–	–	–	–	–	–	–	–	–	–	–	–	–	University Park
0	0	0	0	0	0	0	0	0	0	0	0	0	Austin
0	0	0	0	0	0	0	0	0	0	0	0	0	Lubbock
0	6.8	0	0	0	0	0	0	0	0	0	0.5	0	San Antonio
0	0	0	0	0	0	0	0	0	0	0	0	0	Provo
–	–	–	–	–	–	–	–	–	–	–	–	–	Burlington
0	0	0	0	0	0	0	0	0	0	0	0	0	Richmond
0	0	0	1.0	0	0	0	0	0	0	0	0	1.0	Washington D.C.

Location	Color Hours	% Color	Color ITV Hours	Science	Social Science	Art	Humanities
Arizona, Tucson, Palo Verde High School	0	0	0	0	0	0	0
Calif., Campbell Union High School District	0	0	0	0.3	0	0.5	0
Fresno State College	0	0	0	0	1.7	0	0
Lennox School District	0	0	0	0.3	0	0	0
San Bernardino Valley College	0	0	0	0.5	8.2	0	0
San Jose State College	0	0	0	0	12.5	2.0	12.0
Colo., Denver, University of Colorado Medical Center	0	0	0	13.1	0	0	0
La Junta Public Schools	0	0	0	3.0	0	0	2.5
Conn., Darien Public School System	0	0	0	2.7	6.6	0	0
Delaware, Dover Delaware ETV Network	0	0	0	7.9	14.3	3.3	0
Fla., St. Petersburg Junior College	0	0	0	2.1	6.7	0	0
Ill., Harvey, Thornton High School	0	0	0	0	0.3	0	0
River Forest, Concordia Teachers College	0	0	0	0	0	0	0
Indiana, Marion Community Schools	0	0	0	2.7	3.0	0	0
Kansas, Pittsburg, Kansas State College	0	0	0	0	0	0	0
Louisiana, New Orleans, Louisiana State University Medical Center	0	0	0	0	0	0	0
Massachusetts, Framingham, Winch. Park Junior High School	0	0	0	4.0	2.5	0	5.0
Michigan, Ann Arbor, University of Michigan	–	–	–	–	–	–	–
Marquette, North Michigan University	0	0	0	4.0	21.9	0.7	1.0
Minnesota, Marshall, Ind. School District 413	0	0	0	0.3	4.6	0	0
Missouri, Kirksville Public Schools	0	0	0	13.1	0.9	14.3	1.0
Warrensburg, Central Missouri State College	0	0	0	0	9.0	0	0.7
West Plains	0	0	0	1.2	0	1.0	0
Nebraska, Lincoln, University of Nebraska	0	0	0	6.7	22.5	0	0
Omaha, Creighton University	0	0	0	0	0	0	3.2
New Jersey, Morristown ETV	–	–	–	–	–	–	–
Elmira, Community Cable System	0	0	0	3.9	1.6	0	1.0
Greene Central School	1.0	22.2	1.0	2.0	0	1.0	0
Morrisville, SUNY Ag. and Tech. College	–	–	–	–	–	–	–
New York, Columbia Univ. Sch. of Dental and Oral Surg.	0	0	0	0	0	0	0
Penn Yan Central Schools	–	–	–	–	–	–	–
Williamsville Central Schools	0	0	0	8.2	21.3	0	0
Ohio, Athens, Ohio University	0	0	0	4.8	3.4	1.4	8.8
Kent State University	0	0	0	7.8	37.1	6.0	4.7
Pennsylvania, Philadelphia, Temple University	0	0	0	0	2.0	0	0
University Park, Penn. State University	–	–	–	–	–	–	–
Texas, Austin, Texas Educational Microwave Project	0	0	0	0	1.0	0	1.0
Lubbock, Texas Technological College	0	0	0	2.3	0	0	0
San Antonio, Texas Educational Microwave Project	0	0	0	0	9.7	0.5	1.5
Utah, Provo, Brigham Young University	0	0	0	18.3	0	0	0
Vermont, Burlington, Medical Center Hospital	–	–	–	–	–	–	–
Virginia, Richmond, Union Theological Seminary	0	0	0	0	0	0	0
Washington, D.C., Georgetown University Medical School	0	0	0	0	0	0	0

Closed Circuit 2

Hours of ITV In Subject Areas							Hours of ITV for Educational Levels							
Math	Health, Safety	Phys. Ed.	Foreign Lang.	Lang. Arts	Music	Other	Pre-Kindergarten	K-3 Grade	4-6 Grade	7-9 Grade	10-12 Grade	College	Post-Grad, Adult ITV	Location
0.5	0	0	0	4.0	0	1.7	0	0	0	0.5	5.7	0	0	Tucson
1.7	0	1.0	0	0.8	0	0	0	0	0	0	3.2	0	1.2	Campbell
0	1.7	0	0	1.2	0	0	0	0	0	0	0	4.5	0	Fresno
0	0	0	0.8	0	0	0	0	0	0.3	0.8	0	0	0	Lennox
0	5.8	0	0	0	0	0	0	0	0	0	0	14.5	0	San Bernardino
0	1.5	0	0	0	0	44.2	0	0	0	0	0	72.1	0	San Jose
0	0	0	0	0	0	0	0	0	0	0	0	13.1	0	Denver
0	0	0	0	4.0	0	2.3	0	0	0	0	11.8	0	0	La Junta
0.7	0.9	0	0	5.3	0.5	0.8	0	2.2	4.6	2.0	7.8	0	0.9	Darien
0	0	0	18.8	22.4	0	7.5	0	8.4	20.8	3.3	37.2	0	3.5	Dover
0	0	0	0	2.3	0	0.5	0	0	0	0	0	11.5	0	St. Petersburg
0.8	0	0	0	1.2	0	0	0	0	0	0	7.9	0	0	Harvey
0	0	0	0	2.5	0	0.5	0	0	0	0	0	3.0	0	River Forest
0	0	0	0	1.4	0	0	0	0	0	0	7.1	0	0	Marion
0	0	0.5	0	1.7	0	4.9	0	0	0	0	0	7.1	0	Pittsburg
0	7.8	0	0	0	0	0	0	0	0	0	0	0	7.8	New Orleans
0	0	0	0	3.5	0.5	4.0	0	0	0	5.0	14.5	0	0	Framingham
–	–	–	–	–	–	–	–	–	–	–	–	–	–	Ann Arbor
3.0	0	0	0	1.0	1.5	1.9	0	2.2	7.4	0	0	23.3	2.0	Marquette
0.3	0	0	0.5	1.9	0	0	0	0	0.9	2.6	4.2	0	0	Marshall
0	3.6	0	6.5	3.2	0	17.3	0	12.7	22.6	14.5	0	0	1.0	Kirksville
0	0	0	0	4.5	0	0.5	0	0	0	0	0	14.7	0	Warrensburg
0	0	0	0	0	0	0.5	0	0	2.6	0	0	0	0.5	West Plains
0	0	0	0	0	0	1.7	0	0	0	0	0	30.8	0	Lincoln
0	0	0	0	0	0	0	0	0	0	0	0	3.2	0	Omaha
–	–	–	–	–	–	–	–	–	–	–	–	–	–	Morristown
0	0	0	0	1.3	2.3	0	0	1.9	7.2	0	1.0	0	0	Elmira
0	0	0	0	0	1.5	0	0	0	4.5	0	0	0	0	Greene
–	–	–	–	–	–	–	–	–	–	–	–	–	–	Morrisville
0	0	0	0	0	0	0.9	0	0	0	0	0	0	0.9	New York
–	–	–	–	–	–	–	–	–	–	–	–	–	–	Penn Yan
0	0	0	0	6.7	4.3	3.7	0	3.1	5.7	27.5	7.8	0	0	Williamsville
0	0	0.7	0.3	9.9	1.3	3.3	0	3.6	5.7	2.4	1.0	20.1	1.1	Athens
0	0	1.6	0	0	8.8	12.0	0	0	0	0	1.5	81.4	0	Kent
0	0	0	0	0.5	0	1.0	0	0	0	0	0	3.5	0	Philadelphia
–	–	–	–	–	–	–	–	–	–	–	–	–	–	University Park
0	0	0	0	0	0	1.0	0	0	0	0	0	3.0	0	Austin
0	0	0	2.0	2.7	0	1.3	0	0	0	0	0	8.2	0	Lubbock
0	0	0	3.0	0	0	1.5	0	0	0	0	0	16.2	0	San Antonio
0	0	0	0	0	0	0	0	0	0	0	0	18.3	0	Provo
–	–	–	–	–	–	–	–	–	–	–	–	–	–	Burlington
0	0	0	0	0	0	15.0	0	0	0	0	0	15.0	0	Richmond
0	0	0	0	0	0	10.0	0	0	0	0	0	10.0	0	Washington D.C

Program Hours
From Different Sources

Location	Local	NET	NITC	State Networks	Regional Networks	Commercial TV	Independent Sources	Direct Exchange
Arizona, Tucson, Palo Verde High School	2.2	0	0	0	0	0	4.0	0
Calif., Campbell Union High School District	4.3	0	0	0	0	0	0	0
Fresno State College	4.5	0	0	0	0	0	0	0
Lennox School District	0.3	0	0	0	0.8	0	0	0
San Bernardino Valley College	14.5	0	0	0	0	0	0	0
San Jose State College	73.9	0	0	0	0	0	0	0
Colo., Denver, University of Colorado Medical Center	13.1	0	0	0	0	0	0	0
La Junta Public Schools	11.8	0	0	0	0	0	0	0
Conn., Darien Public School System	8.1	0	0	0	0	3.7	0.8	0
Delaware, Dover Delaware ETV Network	27.2	5.8	3.4	0	3.0	0	3.3	0
Fla., St. Petersburg Junior College	11.0	0	0	0	0	0	0	0
Ill., Harvey, Thornton High School	0	0	0	0	0	0	0	0
River Forest, Concordia Teachers College	3.0	0	0	0	0	0	0	0
Indiana, Marion Community Schools	3.0	0	0	0	0	2.7	1.4	0
Kansas, Pittsburg, Kansas State College	7.1	0	0	0	0	0	0	0
Louisiana, New Orleans, Louisiana State University Medical Center	15.5	0	0	0	0	0	4.0	0
Massachusetts, Framingham, Winch. Park Junior High School	20.5	0	0	0	0	0	0	0
Michigan, Ann Arbor, University of Michigan	–	–	–	–	–	–	–	–
Marquette, North Michigan University	22.3	23.5	1.2	0	0	0	0	4.2
Minnesota, Marshall, Ind. School District 413	0	0	0	1.2	0	6.5	0	0
Missouri, Kirksville Public Schools	33.4	0	6.4	0	0	0	0	0
Warrensburg, Central Missouri State College	14.7	0	0	0	0	0	0	0
West Plains	3.2	2.1	0	0	0	0	0	0
Nebraska, Lincoln, University of Nebraska	30.81	0	0	0	0	0	0	0
Omaha, Creighton University	1.7	0	0	1.5	0	0	0	0
New Jersey, Morristown ETV	–	–	–	–	–	–	–	–
New York, Elmira, Community Cable System	6.1	0	0	0	0	0	0	0
Greene Central School	4.5	0	0	0	0	0	0	0
Morrisville, SUNY Ag. and Tech. College	–	–	–	–	–	–	–	–
New York, Columbia Univ. Sch. of Dental and Oral Surg.	0.9	0	0	0	0	0	0	0
Penn Yan Central Schools	–	–	–	–	–	–	–	–
Williamsville Central Schools	0	0	2.6	7.0	0	27.8	0	6.7
Ohio, Athens, Ohio University	20.5	0	0	13.4	0	0	0	0
Kent State University	83.5	0	0	0	0	0	0	0
Pennsylvania, Philadelphia, Temple University	3.5	0	0	0	0	0	0	0
University Park, Penn. State University	–	–	–	–	–	–	–	–
Texas, Austin, Texas Educational Microwave Project	0	3.0	0	0	0	0	0	0
Lubbock, Texas Technological College	8.2	0	0	0	0	0	0	0
San Antonio, Texas Educational Microwave Project	0	7.3	0	1.5	3.0	0	0	1.5
Utah, Provo, Brigham Young University	18.3	0	0	0	0	0	0	0
Vermont, Burlington, Medical Center Hospital	–	–	–	–	–	–	–	–
Virginia, Richmond, Union Theological Seminary	15.0	0	0	0	0	0	0	0
Washington, D.C., Georgetown University Medical School	10.0	0	0	0	1.0	0	0	0

Program Hours Obtained in Different Forms

ETS	GPNITL MPATI Etc.	Other	Local Live	Local Video Tape	Local Film, First Run	Local Film, Rerun	NET Video Tape	NET Film	NET Inter-cnnctd	State, Re-gional Nets.	Film, Other Source	Video Tape, Other Source	Location
0	0	0	0	2.2	0	0	0	0	0	0	4.0	0	Tucson
0	0	0	4.3	0	0	0	0	0	0	0	0	0	Campbell
0	0	0	4.5	0	0	0	0	0	0	0	0	0	Fresno
0	0	0	0.3	0.8	0	0	0	0	0	0	0	0	Lennox
0	0	0	0	14.5	0	0	0	0	0	0	0	0	San Bernardino
0	0	0	38.5	38.4	0	0	0	0	0	0	0	0	San Jose
0	0	0	0	10.1	0	0	0	0	0	0	0	3.0	Denver
0	0	0	1.3	1.0	0	7.5	0	0	0	0	0	2.0	La Junta
5.0	0	0	1.0	16.5	0	0	0	0	0	0	0	0	Darien
0	12.8	17.8	0	37.9	0	0	0	5.8	0	5.0	9.3	15.3	Dover
0	0.5	0	0	11.0	0	0	0	0	0	0	0	0.5	St. Petersburg
0	0	7.9	0.8	7.2	0	0	0	0	0	0	0	0	Harvey
0	0	0	0	3.0	0	0	0	0	0	0	0	0	River Forest
0	0	0	0	3.7	0	0	0	0	0	0	0.7	2.7	Marion
0	0	0	0	7.1	0	0	0	0	0	0	0	0	Pittsburg
0	0	0	9.8	5.7	0	0	0	0	0	0	0	4.0	New Orleans
0	0	0	1.0	19.5	0	0	0	0	0	0	0	0	Framingham
–	–	–	–	–	–	–	–	–	–	–	–	–	Ann Arbor
0	7.5	0	0	21.4	0	0	21.6	1.9	0	0	4.1	9.7	Marquette
0	0	0	0	7.7	0	0	0	0	0	0	0	0	Marshall
0	7.0	14.3	2.0	40.5	0	0	0	0	0	1.7	0	16.9	Kirksville
0	0	0	0	14.7	0	0	0	0	0	0	0	0	Warrensburg
0	0	0	0.4	2.8	0	0	0	0	2.1	0	0	0	West Plains
0	0	0	1.7	29.2	0	0	0	0	0	0	0	0	Lincoln
0	0	0	1.7	0	0	0	0	0	0	0	0	1.5	Omaha
–	–	–	–	–	–	–	–	–	–	–	–	–	Morristown
0	2.8	0	6.1	0	0	0	0	0	0	0	0	4.0	Elmira
0	0	0	4.5	0	0	0	0	0	0	0	0	0	Greene
–	–	–	–	–	–	–	–	–	–	–	–	–	Morrisville
0	0	0	0.3	0.5	0	0	0	0	0	0	0	0	New York
–	–	–	–	–	–	–	–	–	–	–	–	–	Penn Yan
0	0	0	0	43.7	0	0	0	0	0	0	0	0	Williamsville
0	0	0	0	21.2	0	0	0	0	0	12.7	0	0	Athens
0	0	0	0	78.3	0	0	0	0	0	0	0	0	Kent
0	0	0	2.0	1.5	0	0	0	0	0	0	0	0	Philadelphia
–	–	–	–	–	–	–	–	–	–	–	–	–	University Park
0	0	0	0	0	0	0	3.0	0	0	0	0	0	Austin
0	0	0	0	8.2	0	0	0	0	0	0	0	0	Lubbock
3.0	0	0	0	6.0	0	0	0	0.5	6.8	1.5	0	1.5	San Antonio
0	0	0	2.5	15.8	0	0	0	0	0	0	0	0	Provo
–	–	–	–	–	–	–	–	–	–	–	–	–	Burlington
0	0	0	0	15.0	0	0	0	0	0	0	0	0	Richmond
0	0	0	10.0	0	0	0	0	0	0	1.0	0	0	Washington D.C.